

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P533408

Luminaire Tested: **GALN-SA8D-750-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-750-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52848 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

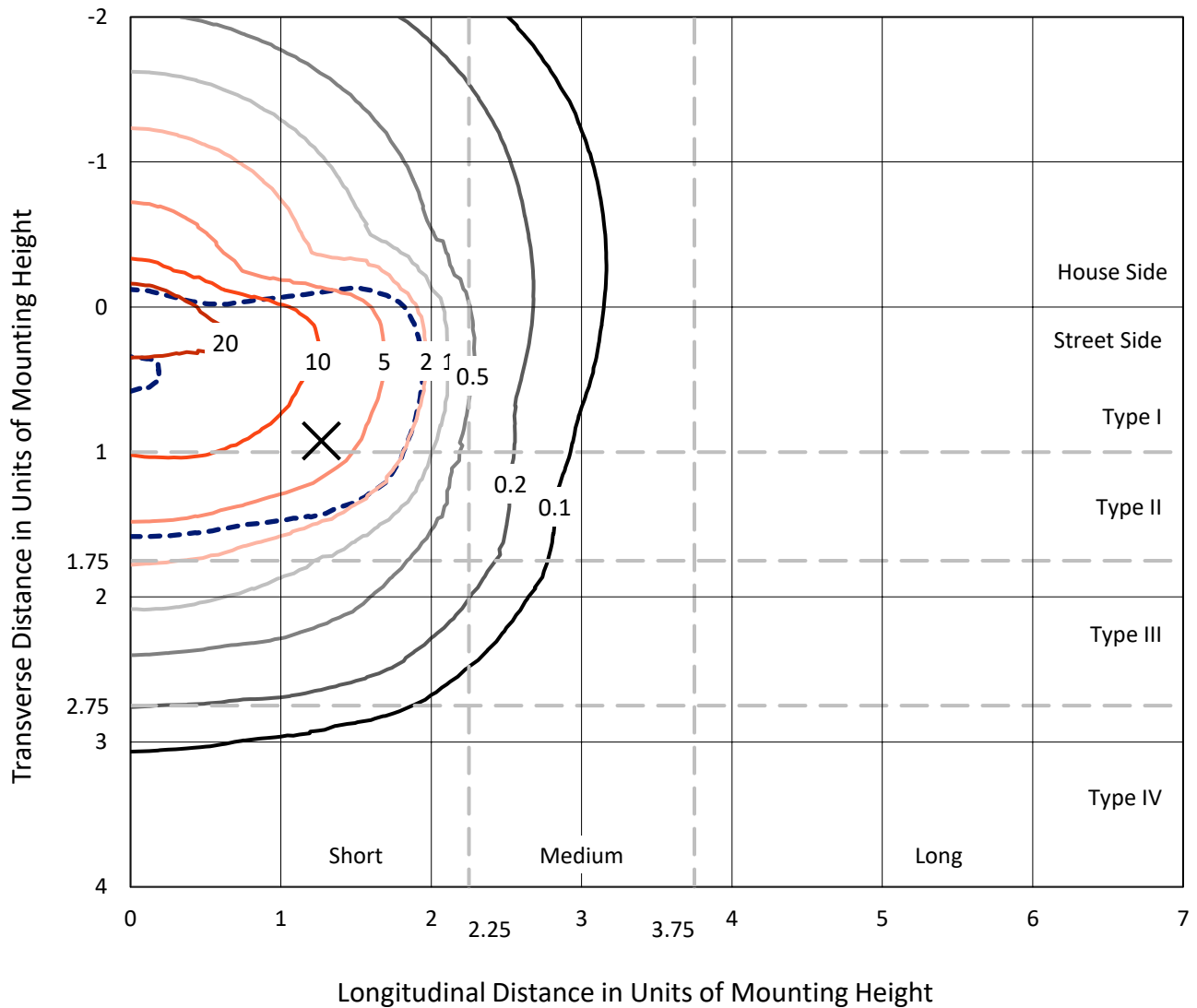
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

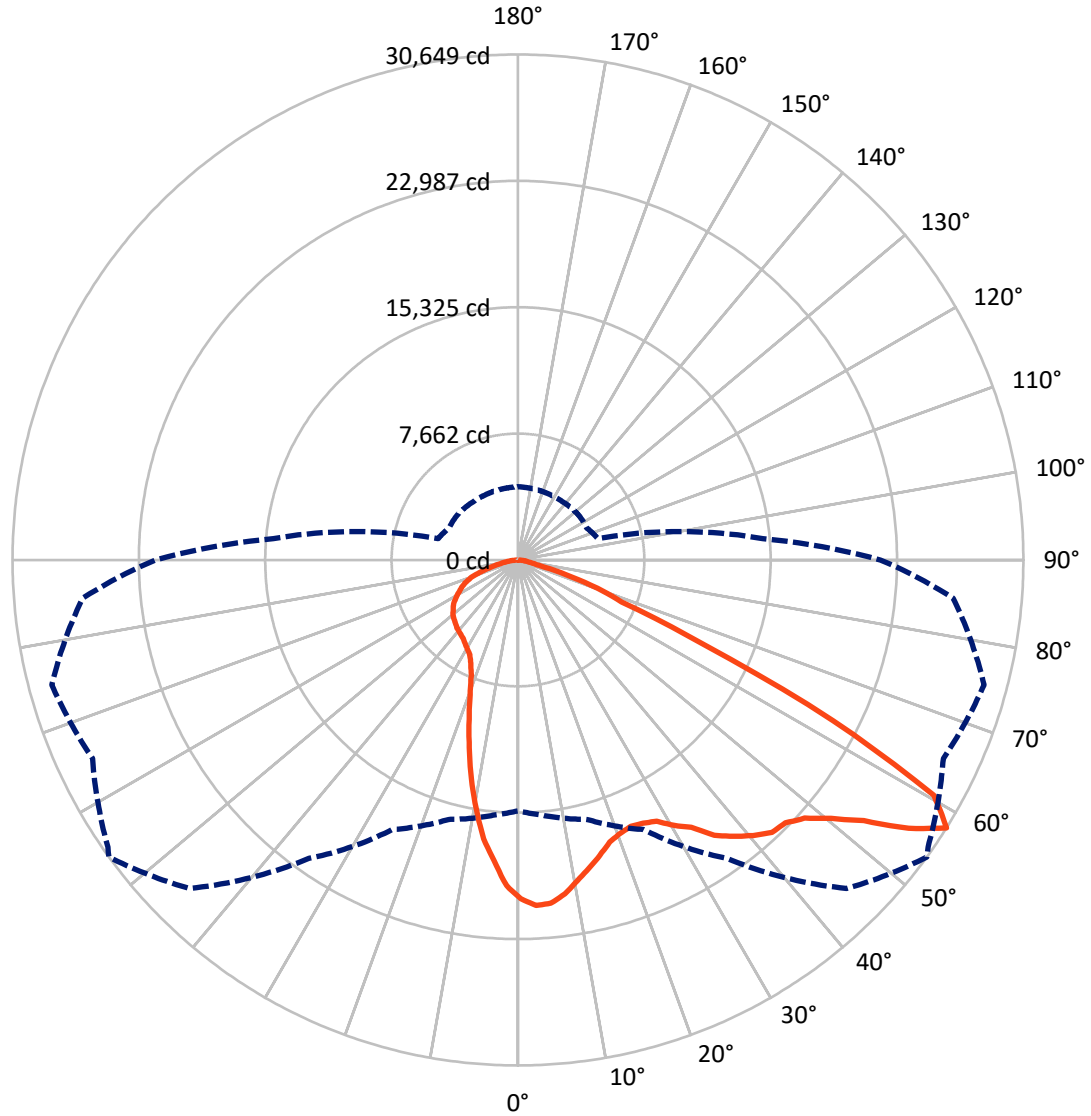
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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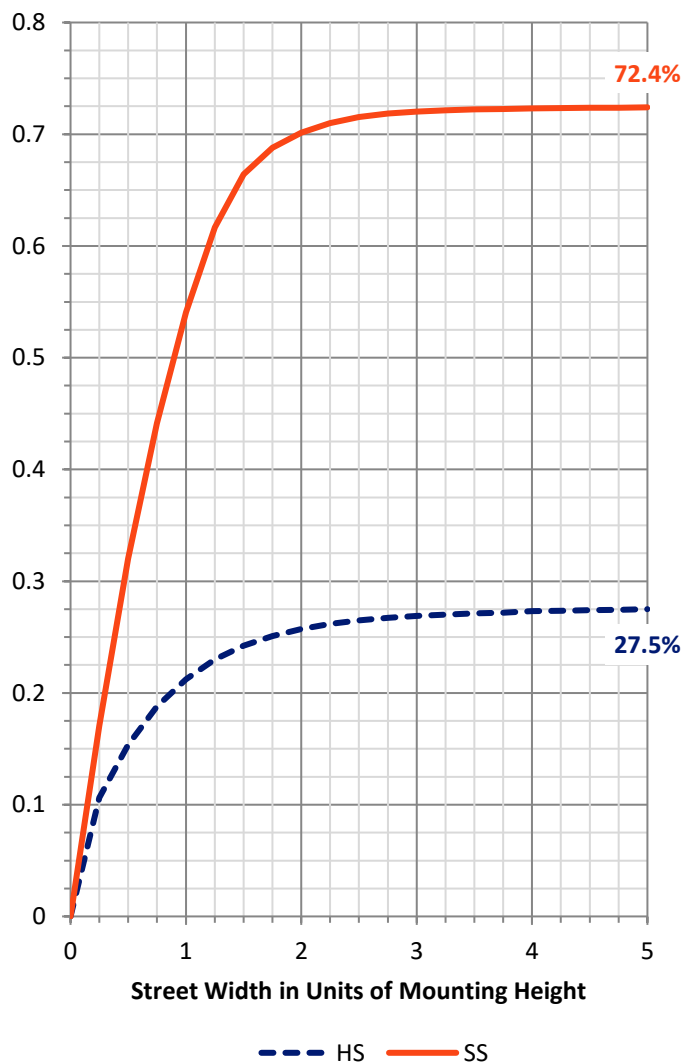
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14620.7	0.0	14620.7
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	38227.3	0.0	38227.3
	% Fixture	72.3	0.0	72.3
Total	Lumens	52848.0	0.0	52848.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1771.5	3.4
10°-20°	4101.7	7.8
20°-30°	5762.9	10.9
30°-40°	8056.6	15.2
40°-50°	10907.1	20.6
50°-60°	13285.3	25.1
60°-70°	6919.5	13.1
70°-80°	1773.0	3.4
80°-90°	270.5	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	52848.0	100.0
0°-180°	52848.0	100.0



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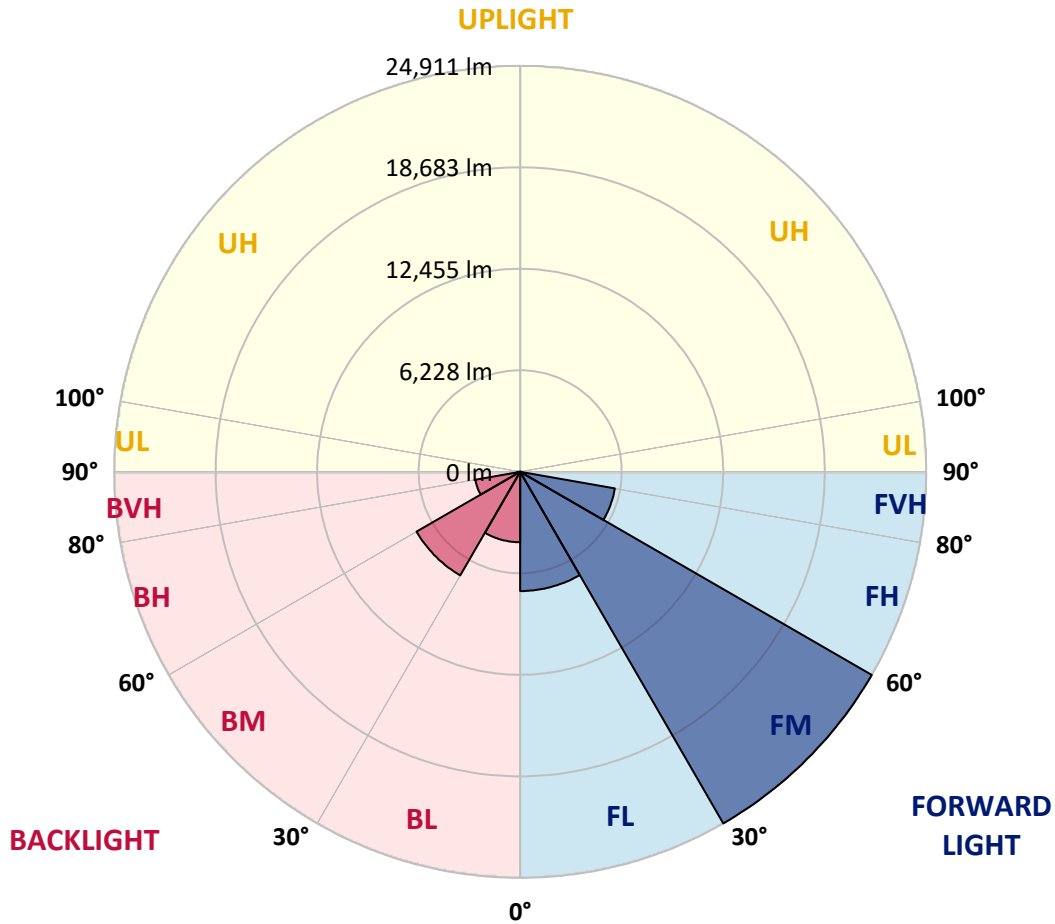
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7314.9	13.8			
FM (30°-60°)	24910.9	47.1			
FH (60°-80°)	5899.3	11.2			G3/7500
FVH (80°-90°)	102.2	0.2			G2/225
BL (0°-30°)	4321.2	8.2	B4/5000		
BM (30°-60°)	7338.0	13.9	B4/8500		
BH (60°-80°)	2793.3	5.3	B4/5000		G4/5000
BVH (80°-90°)	168.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	20541.4	20541.4	20541.4	20541.4	20541.4	20541.4	20541.4	20541.4	20541.4	20541.4	20541.4
2.5°	21125.6	21044.1	21057.7	21166.3	21030.5	20976.2	20976.2	20711.2	20731.6	20548.2	20500.7
5°	20636.5	20446.3	20575.4	20738.4	20765.6	20819.9	20908.2	20840.3	20650.1	20453.1	20133.8
7.5°	19359.5	19529.3	19576.8	19692.3	19936.9	20161.0	20439.5	20249.3	20242.5	20045.5	19855.3
10°	18238.7	18136.8	18394.9	18564.7	18972.3	19345.9	19773.8	19753.4	19855.3	19631.2	19305.1
12.5°	17124.6	17043.1	17165.4	17552.6	18123.2	18666.6	19176.1	18985.9	19529.3	19488.5	18788.9
15°	15942.7	16003.8	16180.4	16540.5	17287.7	17939.8	18585.1	18591.9	19074.2	19237.2	18299.8
17.5°	15114.0	15046.0	15270.2	15806.8	16472.5	17253.7	17987.3	18136.8	18877.2	18972.3	18150.3
20°	14495.8	14590.9	14883.0	15154.7	15922.3	16866.5	17695.2	17749.6	18836.4	19094.5	17912.6
22.5°	14346.4	14292.0	14387.1	14828.7	15460.4	16486.1	17539.0	17742.8	18829.6	19053.8	17464.3
25°	14190.1	14366.8	14360.0	14801.5	15263.4	16180.4	17668.1	17892.2	19189.6	19264.4	17525.4
27.5°	14543.4	14523.0	14713.2	14747.2	15317.8	16262.0	17939.8	18109.6	19787.4	19726.3	17573.0
30°	14896.6	14794.7	14910.2	15311.0	15575.9	16730.7	18687.0	18673.4	20561.8	20521.0	17722.4
32.5°	15331.3	15283.8	15358.5	15711.7	16160.1	17355.6	19318.7	19719.5	21349.8	21607.9	18238.7
35°	15412.9	15609.8	15786.5	16262.0	16900.5	18367.7	20507.4	20840.3	22260.0	23068.3	19223.6
37.5°	15929.1	16003.8	16418.2	17260.5	17844.7	19719.5	21261.4	21472.0	23088.7	24005.7	20262.9
40°	16479.3	16567.6	17192.6	18075.6	18877.2	20602.5	21967.9	22035.8	23353.6	24725.8	20942.2
42.5°	17226.5	17308.0	17926.2	19033.4	20106.7	21356.5	22592.8	22667.6	23333.3	25554.5	22022.2
45°	18000.9	18197.9	18924.7	20181.4	21146.0	22239.6	22735.5	23041.2	23523.4	26294.9	22898.5
47.5°	19087.8	19271.2	19868.9	21098.4	22226.0	23014.0	23394.4	23693.3	23978.6	26940.2	23462.3
50°	20242.5	20276.5	21003.3	22117.3	22946.1	23890.3	24623.9	24725.8	24576.3	27687.4	24420.1
52.5°	21091.6	21200.3	21764.1	22851.0	24087.3	25248.8	26254.2	26362.8	26070.7	27965.9	24746.2
55°	19685.5	19624.4	20541.4	21988.3	24854.8	27273.1	28733.5	28815.0	27157.6	28828.6	25812.6
57.5°	15215.9	15508.0	16289.1	18034.9	22083.4	28169.7	30649.1	30357.0	28461.8	29263.4	26491.9
60°	11058.7	10990.7	11513.8	12682.1	16642.3	24277.4	28978.1	29276.9	27395.3	26376.4	21845.6
62.5°	9007.2	8912.1	8952.9	8993.7	10739.4	16112.5	21451.6	21444.9	21098.4	18958.7	14733.6
65°	7200.4	7424.5	7444.9	7750.6	7974.7	9625.4	12430.8	13096.5	11405.1	9353.7	6786.0
67.5°	5427.4	5345.9	5617.6	6704.5	7125.6	6949.0	6786.0	6860.7	4877.2	3518.7	3314.9
70°	3199.4	3165.4	3491.5	4673.4	5869.0	5522.5	5115.0	5121.8	3348.8	2459.0	2737.5
72.5°	1752.5	1745.7	1813.7	2370.7	3335.3	3464.3	3070.3	3165.4	1997.1	1990.3	2139.7
75°	978.2	957.8	937.4	1046.1	1202.3	1270.3	1297.4	1311.0	1372.1	1535.2	1596.3
77.5°	360.0	346.4	346.4	400.8	509.5	638.5	808.3	821.9	971.4	1114.0	1175.2
80°	122.3	135.9	183.4	251.3	339.6	455.1	550.2	563.8	686.1	781.2	801.5
82.5°	74.7	81.5	122.3	176.6	244.5	319.3	407.6	414.4	509.5	570.6	597.8
85°	34.0	40.8	67.9	108.7	156.2	210.6	217.4	217.4	210.6	217.4	203.8
87.5°	0.0	0.0	13.6	13.6	13.6	20.4	27.2	20.4	34.0	40.8	40.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	20541.4	20541.4	20541.4	20541.4	20541.4	20541.4	20541.4	20541.4	20541.4	20541.4	20541.4
2.5°	20358.0	20283.3	20052.3	19848.5	19787.4	19515.7	19114.9	19162.5	18870.4	19006.2	18863.6
5°	20079.5	19828.2	19237.2	18985.9	18327.0	18028.1	17824.3	17314.8	17077.1	17029.5	16825.8
7.5°	19366.3	19210.0	18469.6	17790.3	17090.7	16492.9	15725.3	15202.3	14828.7	14726.8	14427.9
10°	18802.5	18456.0	17430.3	16397.8	15399.3	14360.0	13361.4	12580.3	12199.9	11758.3	11608.9
12.5°	18245.4	17722.4	16336.7	15012.1	13721.4	12410.4	11201.3	10250.3	9421.6	9224.6	9156.7
15°	17899.0	16988.8	15358.5	13762.2	11928.1	10216.4	9007.2	8382.3	7872.8	7662.3	7811.7
17.5°	17443.9	16384.2	14421.1	12295.0	10277.5	8701.6	7689.4	7302.3	7118.8	7139.2	7078.1
20°	16873.3	15813.6	13191.6	10963.6	8803.5	7546.8	6969.4	6826.8	6853.9	6901.5	6881.1
22.5°	16465.7	15120.8	12301.8	9605.0	7607.9	6908.3	6670.5	6568.6	6656.9	6697.7	6663.7
25°	16153.3	14529.8	11221.7	8402.7	6915.1	6548.3	6439.6	6432.8	6568.6	6623.0	6589.0
27.5°	15868.0	13979.6	10148.4	7485.7	6453.2	6269.7	6235.8	6317.3	6405.6	6459.9	6507.5
30°	15698.1	13558.4	9143.1	6718.1	6222.2	6133.9	6072.8	6147.5	6195.0	6249.4	6222.2
32.5°	15861.2	13259.5	8171.7	6283.3	6032.0	5943.7	6025.2	5977.7	6059.2	6106.7	6032.0
35°	16370.6	12994.6	7478.9	6052.4	5814.6	5848.6	5862.2	5841.8	5875.8	5835.0	5923.3
37.5°	16873.3	12899.5	6840.3	5855.4	5712.7	5712.7	5699.2	5658.4	5726.3	5712.7	5753.5
40°	17511.8	12960.7	6296.9	5644.8	5617.6	5604.1	5549.7	5542.9	5515.7	5522.5	5536.1
42.5°	18068.8	13096.5	5984.5	5509.0	5529.3	5556.5	5454.6	5373.1	5407.1	5339.1	5339.1
45°	18659.8	13218.8	5705.9	5413.9	5393.5	5386.7	5305.2	5257.6	5230.5	5237.2	5298.4
47.5°	19590.4	13395.4	5495.4	5284.8	5298.4	5196.5	5176.1	5115.0	5142.1	5182.9	5189.7
50°	20249.3	13769.0	5332.3	5135.4	5182.9	5115.0	4992.7	4965.5	4965.5	5033.5	5019.9
52.5°	20711.2	14292.0	5176.1	4972.3	4992.7	4938.4	4897.6	4836.5	4795.7	4890.8	4938.4
55°	22124.1	15161.5	5135.4	4836.5	4829.7	4775.3	4700.6	4639.5	4619.1	4632.7	4727.8
57.5°	21988.3	14889.8	5006.3	4598.7	4585.1	4510.4	4435.7	4415.3	4408.5	4422.1	4449.3
60°	17851.5	10997.5	4469.7	4327.0	4306.6	4293.0	4218.3	4136.8	4096.1	4136.8	4102.8
62.5°	11812.7	7363.4	3939.8	4001.0	4014.5	3980.6	3858.3	3776.8	3790.4	3837.9	3763.2
65°	5801.0	4327.0	3573.0	3736.0	3749.6	3654.5	3539.0	3443.9	3396.4	3437.2	3403.2
67.5°	3314.9	3308.1	3274.1	3443.9	3437.2	3342.1	3158.6	3077.1	2995.6	3009.2	2988.8
70°	2812.2	2866.6	2934.5	3036.4	3029.6	2920.9	2703.5	2642.4	2526.9	2513.3	2479.4
72.5°	2214.5	2309.6	2459.0	2533.7	2472.6	2336.7	2194.1	2092.2	1990.3	1929.2	1949.5
75°	1643.9	1779.7	1861.2	1908.8	1813.7	1739.0	1623.5	1501.2	1378.9	1324.6	1304.2
77.5°	1195.5	1236.3	1311.0	1345.0	1283.8	1209.1	1141.2	1018.9	903.4	828.7	808.3
80°	835.5	862.7	917.0	917.0	917.0	883.1	794.8	672.5	597.8	529.8	516.3
82.5°	584.2	611.4	665.7	638.5	631.7	591.0	536.6	441.5	360.0	312.5	298.9
85°	203.8	224.2	271.7	326.1	346.4	339.6	305.7	244.5	190.2	156.2	142.6
87.5°	47.5	47.5	54.3	47.5	47.5	54.3	47.5	47.5	47.5	34.0	27.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)