

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: P532206

Luminaire Tested: **GALN-SA7C-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-740-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44187 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

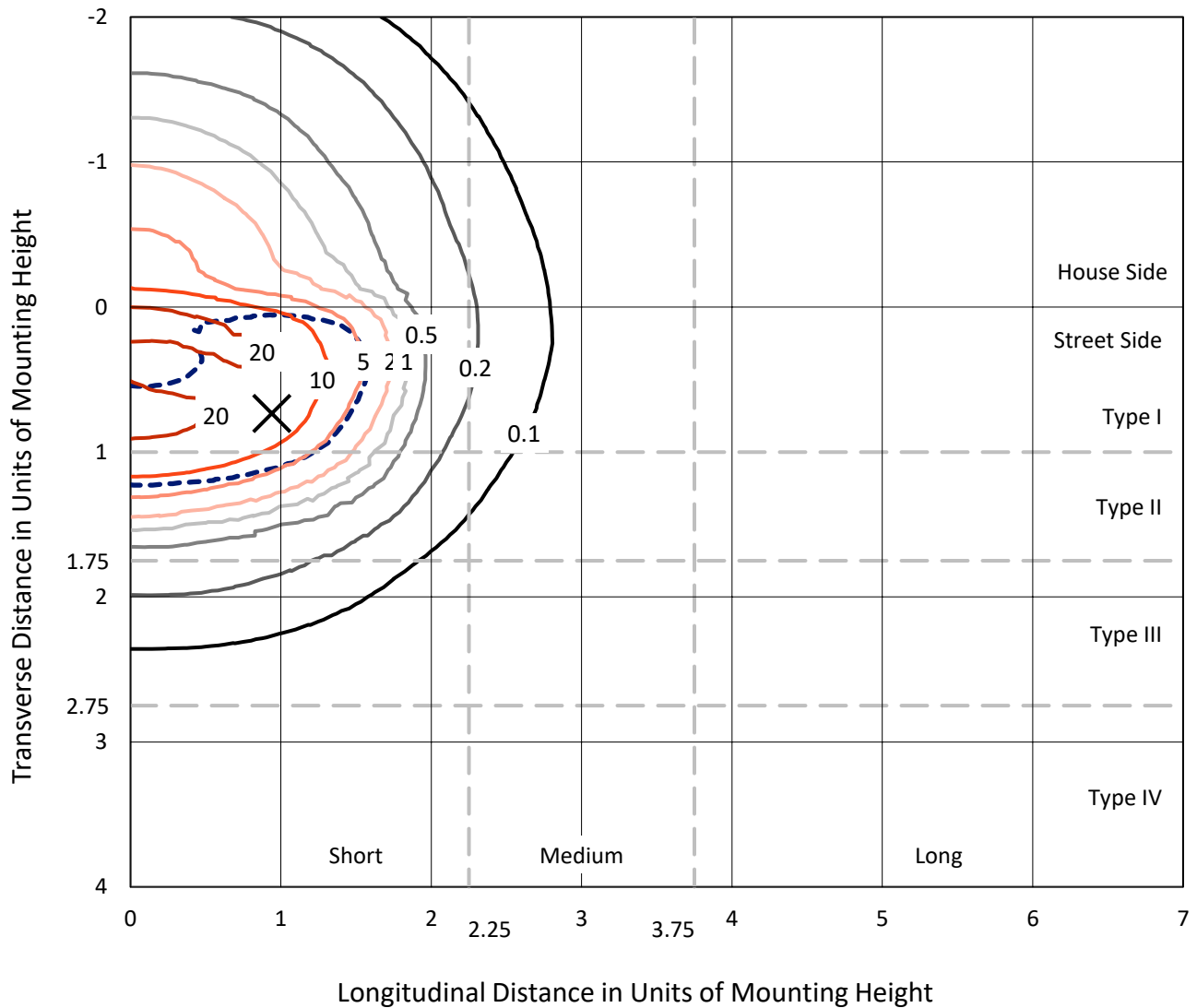
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

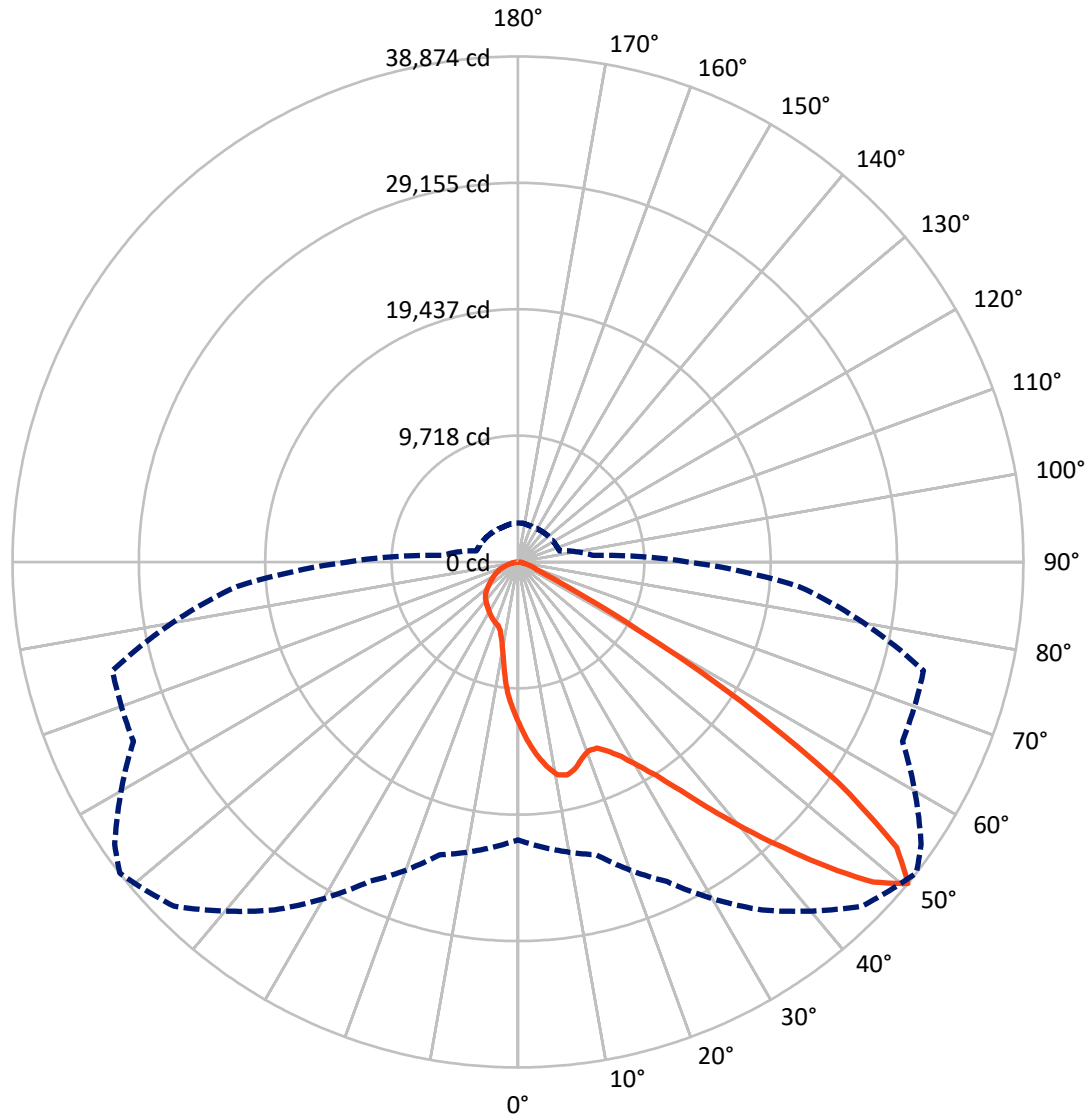
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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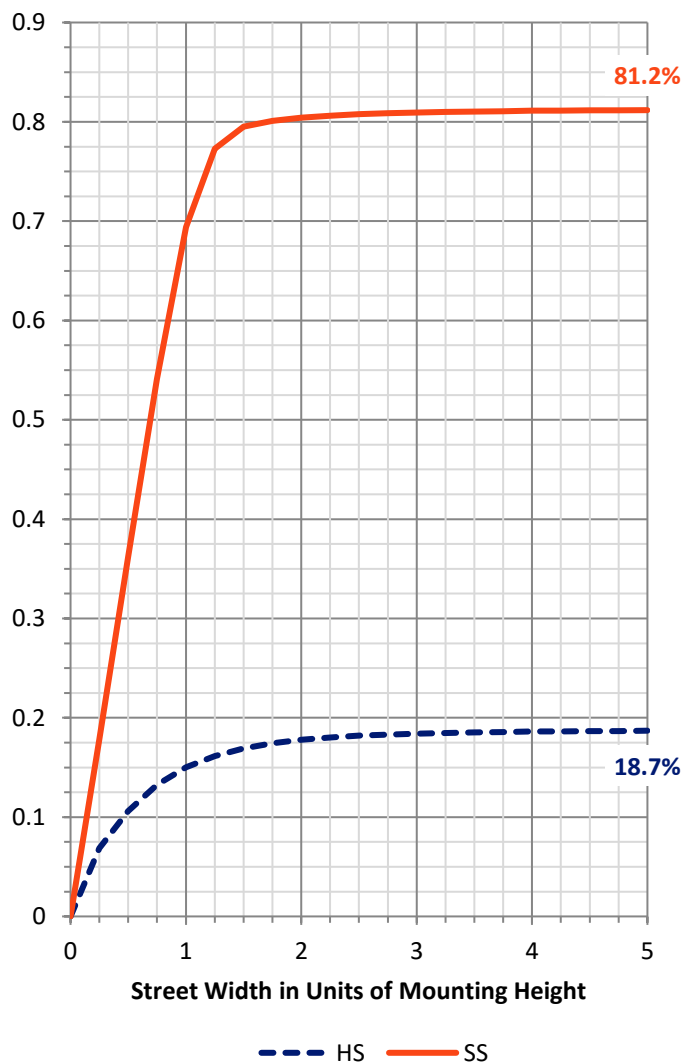
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8306.1	0.0	8306.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	35880.9	0.0	35880.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	44187.0	0.0	44187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1148.0	2.6
10°-20°	3077.0	7.0
20°-30°	5183.1	11.7
30°-40°	8697.6	19.7
40°-50°	13305.3	30.1
50°-60°	9700.6	22.0
60°-70°	2158.9	4.9
70°-80°	778.7	1.8
80°-90°	137.8	0.3
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°	44187.0	100.0
0°-180°	44187.0	100.0

Coefficient of Utilization



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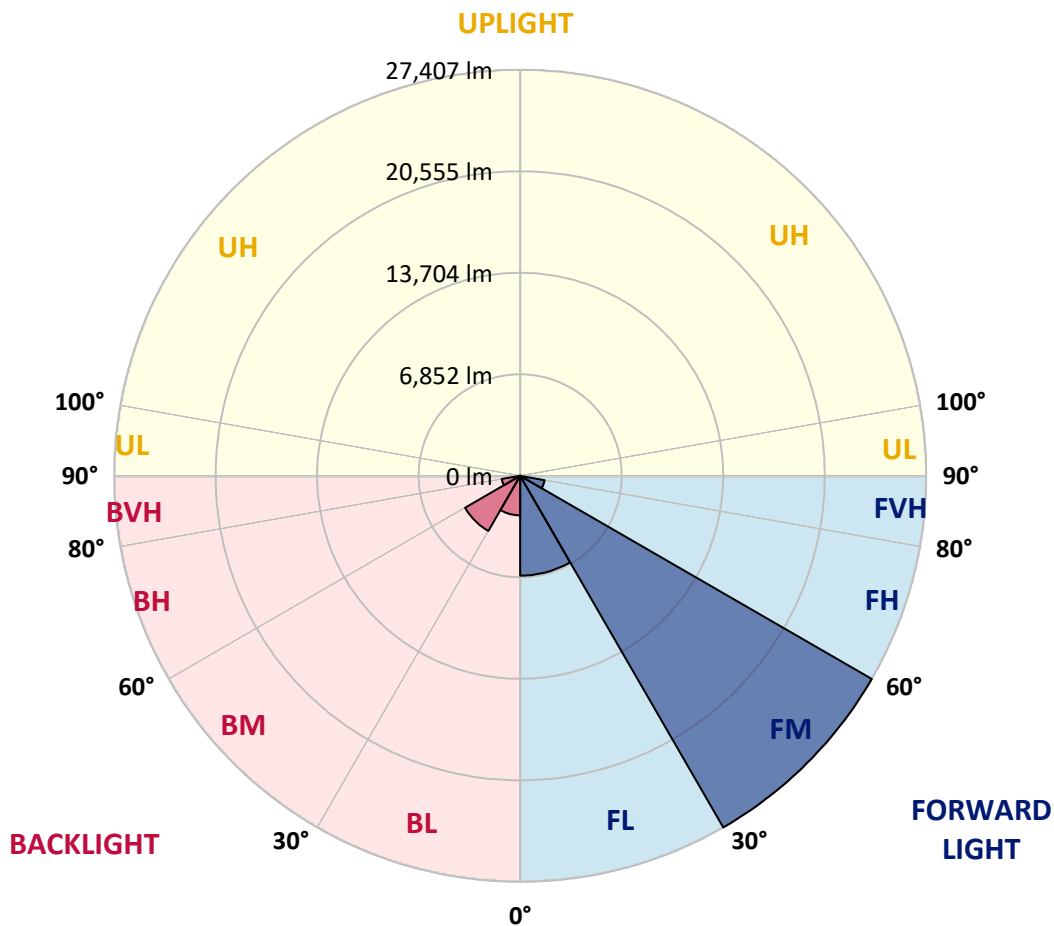
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6740.0	15.3			
FM (30°-60°)	27407.0	62.0			
FH (60°-80°)	1672.1	3.8			G1/1800
FVH (80°-90°)	61.8	0.1			G1/100
BL (0°-30°)	2668.1	6.0	B4/5000		
BM (30°-60°)	4296.5	9.7	B3/5000		
BH (60°-80°)	1265.5	2.9	B3/2500		G3/2500
BVH (80°-90°)	76.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	12455.6	12455.6	12455.6	12455.6	12455.6	12455.6	12455.6	12455.6	12455.6	12455.6	12455.6
2.5°	14665.5	14383.3	14415.2	14212.9	13994.6	13930.7	13707.0	13494.0	13334.2	12993.4	12679.2
5°	16028.8	15943.6	15815.8	15656.0	15490.9	15086.2	14857.2	14591.0	14005.2	13478.0	12956.1
7.5°	16225.8	16209.8	16279.1	16279.1	16337.6	16183.2	15858.4	15672.0	15048.9	14191.6	13222.4
10°	14841.3	14889.2	15224.7	15661.3	16268.4	16689.1	16635.8	16587.9	15906.3	14734.8	13536.6
12.5°	13738.9	13632.4	13829.5	14202.2	15112.8	16130.0	16816.9	16822.2	16646.5	15602.8	13765.6
15°	13115.9	13190.5	13243.7	13419.4	14106.4	15283.3	16492.1	16848.9	17621.0	16215.2	14127.7
17.5°	13515.3	13265.0	13254.4	13297.0	13648.4	14532.4	15890.3	16502.7	18153.5	17003.3	14575.0
20°	14037.2	14031.8	13882.7	13829.5	13824.2	14612.3	15496.3	16327.0	18435.8	18025.7	15027.6
22.5°	14953.1	14953.1	14708.1	14591.0	14340.7	14985.0	15549.5	16114.0	18904.4	18728.6	15246.0
25°	16486.7	16236.5	15815.8	15528.2	15384.4	15613.4	16114.0	16619.9	19314.4	19474.2	15698.6
27.5°	17903.2	17509.2	17301.5	16806.3	16614.5	16481.4	16939.4	17450.6	19793.7	20635.1	15943.6
30°	19511.4	19442.2	19069.4	18430.4	17956.5	17711.5	18132.2	18638.1	20672.3	21822.6	16508.0
32.5°	22387.0	21758.7	21252.8	20470.0	19697.8	19176.0	19591.3	19926.8	22131.4	23063.3	17125.8
35°	25491.6	25289.3	24415.9	23004.8	21822.6	21353.9	21598.9	21849.2	23830.2	24959.1	18164.2
37.5°	28542.9	28266.0	27547.1	26359.6	24921.8	23968.6	24144.3	24437.2	25736.6	27515.2	19431.6
40°	30736.9	30396.1	30034.0	29858.3	28431.1	27126.4	27025.3	27099.8	28314.0	29911.5	20837.4
42.5°	30896.7	31317.4	31429.2	32137.4	31801.9	30731.6	30108.5	30124.5	30774.2	32281.2	22259.2
45°	30561.2	30172.4	30997.8	32930.9	34038.5	34539.1	33490.0	33356.9	32297.2	33655.1	22967.5
47.5°	27041.2	27147.7	28542.9	31599.6	34800.0	37036.6	36791.6	36349.6	33111.9	33607.2	22855.6
50°	21375.2	22019.6	23313.6	27121.1	32669.9	37430.7	38873.8	37851.3	32627.3	32286.5	21716.1
52.5°	14234.2	14500.4	15352.5	20267.6	26269.1	33458.1	36477.4	36711.8	32180.0	30555.9	20272.9
55°	6337.0	6315.7	7513.8	10586.4	16481.4	25459.7	29805.0	31232.1	30460.0	28793.2	18867.1
57.5°	2683.9	2774.4	3264.3	4574.3	8104.9	15363.1	20193.1	21444.5	23425.4	23643.8	14473.8
60°	1815.9	1826.5	1959.7	2289.8	3392.1	7215.6	10591.8	12093.5	13510.0	13414.1	7678.9
62.5°	1427.1	1464.4	1565.6	1698.7	2012.9	3275.0	4739.4	5575.5	5666.0	4766.0	2912.9
65°	1219.5	1224.8	1326.0	1437.8	1576.3	1906.4	2284.5	2327.1	2353.7	2268.5	2140.7
67.5°	1006.5	1017.1	1097.0	1224.8	1352.6	1459.1	1565.6	1618.9	1741.3	1981.0	1949.0
70°	798.8	814.8	884.0	990.5	1107.6	1171.5	1304.7	1352.6	1464.4	1650.8	1725.4
72.5°	607.1	612.4	671.0	745.5	852.0	915.9	1027.8	1081.0	1155.6	1315.3	1384.5
75°	436.7	452.6	495.2	532.5	548.5	591.1	697.6	756.2	862.7	931.9	937.2
77.5°	229.0	239.6	250.3	250.3	303.5	383.4	452.6	484.6	559.1	612.4	585.8
80°	90.5	95.9	122.5	165.1	213.0	276.9	324.8	340.8	404.7	436.7	452.6
82.5°	53.3	58.6	79.9	117.2	154.4	197.0	234.3	250.3	292.9	330.2	340.8
85°	26.6	32.0	47.9	74.6	101.2	122.5	117.2	111.8	111.8	106.5	111.8
87.5°	10.7	10.7	16.0	16.0	16.0	21.3	26.6	26.6	26.6	32.0	32.0
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°	12455.6	12455.6	12455.6	12455.6	12455.6	12455.6	12455.6	12455.6	12455.6	12455.6	12455.6
2.5°	12471.6	12258.6	12061.5	11699.4	11305.3	11193.5	10735.6	10570.5	10453.3	10314.9	10272.3
5°	12535.5	12253.2	11619.5	10890.0	10309.5	9564.0	9074.1	8546.9	8163.5	8067.6	8041.0
7.5°	12668.6	12184.0	11092.3	9990.0	8802.5	7790.7	7018.6	6603.2	6235.8	6214.5	6177.2
10°	12817.7	11976.3	10517.2	8786.5	7268.9	6331.6	5868.3	5687.3	5596.8	5575.5	5564.8
12.5°	12940.2	11933.7	9872.9	7615.0	6182.5	5618.1	5479.6	5463.6	5500.9	5511.6	5532.9
15°	12993.4	11763.3	9095.4	6565.9	5506.2	5298.5	5357.1	5421.0	5447.7	5516.9	5463.6
17.5°	13094.6	11545.0	8136.9	5735.2	5128.1	5165.4	5266.6	5341.1	5383.8	5431.7	5362.5
20°	13147.9	11347.9	7236.9	5240.0	4995.0	5064.2	5202.7	5261.3	5314.5	5335.8	5255.9
22.5°	13099.9	10943.2	6443.5	4840.6	4867.2	4957.7	5080.2	5144.1	5112.2	5027.0	4979.0
25°	12972.1	10373.4	5618.1	4585.0	4686.2	4845.9	4941.8	4893.8	4835.3	4787.3	4771.4
27.5°	12966.8	9675.8	5021.6	4350.7	4531.7	4750.1	4718.1	4675.5	4702.1	4664.9	4622.3
30°	12993.4	8999.5	4531.7	4217.5	4419.9	4526.4	4563.7	4521.1	4553.0	4483.8	4505.1
32.5°	12855.0	8339.2	4212.2	4063.1	4286.8	4281.4	4403.9	4435.9	4361.3	4217.5	4238.8
35°	12913.5	7806.7	3940.6	3993.9	4137.7	4137.7	4233.5	4196.2	3999.2	3914.0	3935.3
37.5°	13318.3	7284.8	3807.5	3898.0	3993.9	4036.5	4004.5	3844.8	3796.8	3796.8	3807.5
40°	13701.7	6837.5	3727.6	3876.7	3860.8	3887.4	3653.1	3669.0	3669.0	3674.4	3647.7
42.5°	14042.5	6534.0	3663.7	3748.9	3775.5	3637.1	3493.3	3477.3	3514.6	3509.3	3488.0
45°	14165.0	6283.7	3573.2	3605.1	3626.4	3397.5	3328.2	3296.3	3338.9	3354.9	3376.2
47.5°	13696.3	6076.0	3472.0	3408.1	3365.5	3216.4	3125.9	3067.3	3120.6	3211.1	3232.4
50°	13094.6	5804.4	3312.3	3189.8	3099.3	3035.3	2971.4	2912.9	2950.1	3014.0	2998.1
52.5°	12205.3	5378.4	3109.9	2982.1	2827.7	2843.6	2785.1	2753.1	2774.4	2774.4	2758.4
55°	10937.9	4419.9	2769.1	2678.6	2550.8	2593.4	2604.0	2561.4	2518.8	2556.1	2524.1
57.5°	7465.9	3120.6	2470.9	2470.9	2343.1	2401.7	2396.3	2295.2	2194.0	2204.6	2183.3
60°	4318.7	2486.9	2279.2	2257.9	2124.7	2172.7	2183.3	2114.1	1959.7	1970.3	1949.0
62.5°	2454.9	2124.7	1991.6	1959.7	1933.0	1975.6	1975.6	1885.1	1752.0	1762.6	1741.3
65°	2087.5	1970.3	1778.6	1773.3	1762.6	1773.3	1730.7	1634.8	1517.7	1469.7	1475.1
67.5°	1895.8	1821.2	1634.8	1586.9	1555.0	1549.6	1469.7	1379.2	1326.0	1283.4	1278.0
70°	1661.5	1602.9	1464.4	1400.5	1368.6	1294.0	1214.1	1155.6	1081.0	1059.7	1081.0
72.5°	1315.3	1310.0	1256.7	1187.5	1118.3	1059.7	990.5	910.6	841.4	825.4	788.1
75°	910.6	921.3	931.9	921.3	862.7	788.1	708.2	644.3	559.1	511.2	500.6
77.5°	596.4	612.4	628.4	607.1	569.8	500.6	447.3	367.4	303.5	266.3	260.9
80°	436.7	458.0	468.6	452.6	410.0	356.8	298.2	234.3	186.4	154.4	154.4
82.5°	335.5	356.8	367.4	340.8	298.2	255.6	213.0	165.1	127.8	101.2	95.9
85°	117.2	111.8	133.1	138.5	165.1	154.4	127.8	95.9	74.6	53.3	47.9
87.5°	32.0	32.0	37.3	37.3	32.0	26.6	26.6	26.6	21.3	16.0	16.0
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)