

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: P534265

Luminaire Tested: **GALN-SA9D-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-730-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37351 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

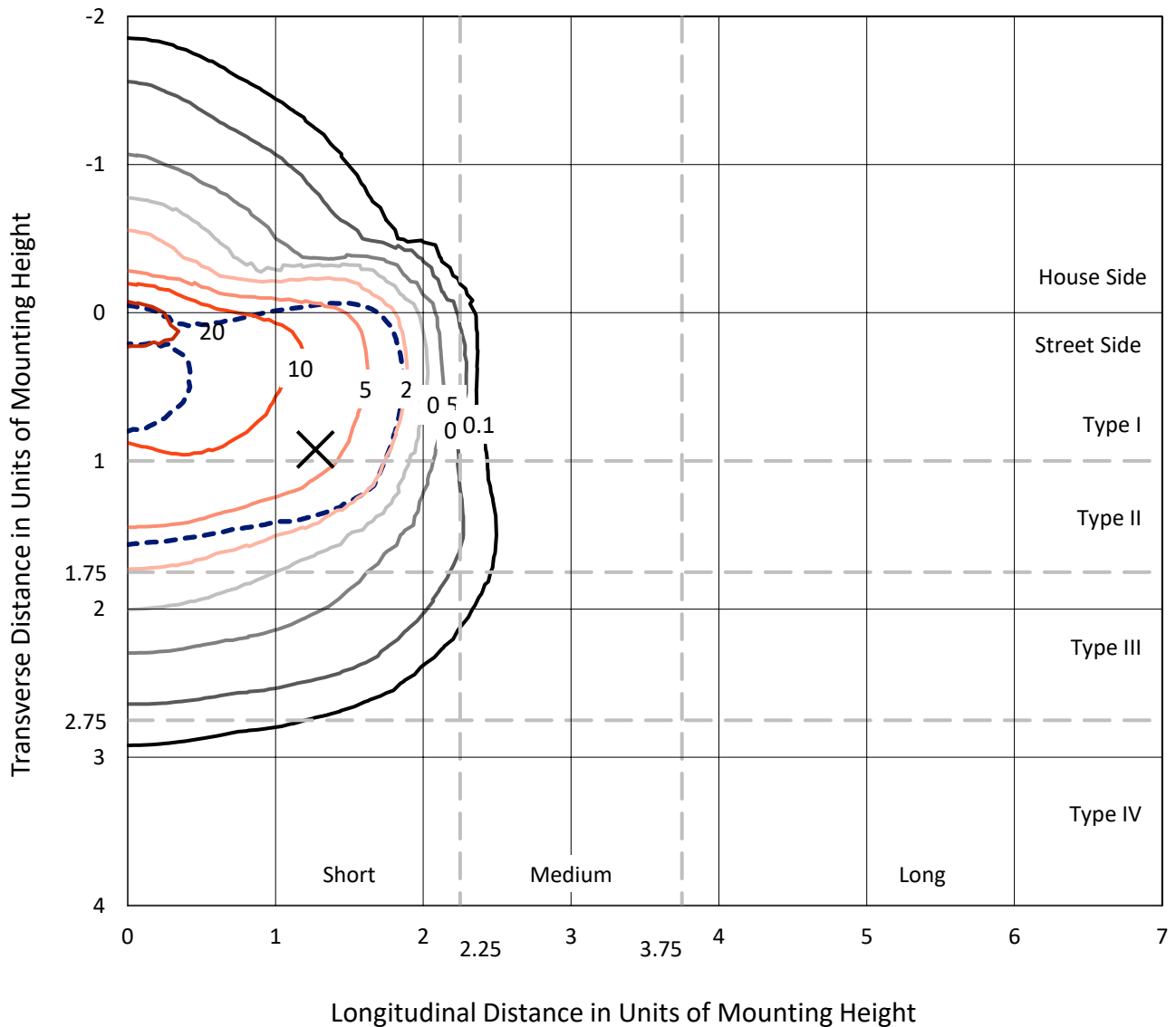
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

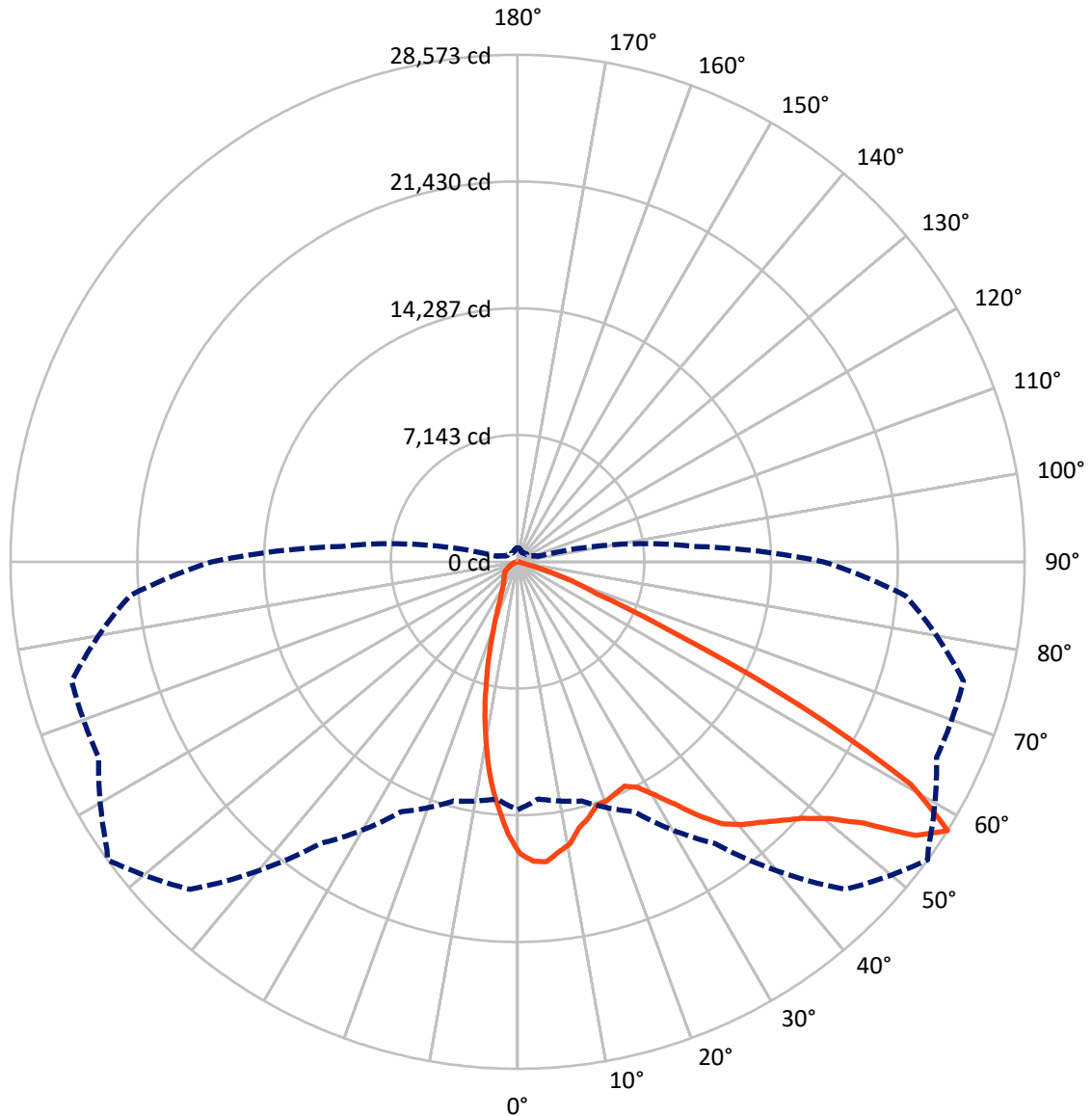
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.3 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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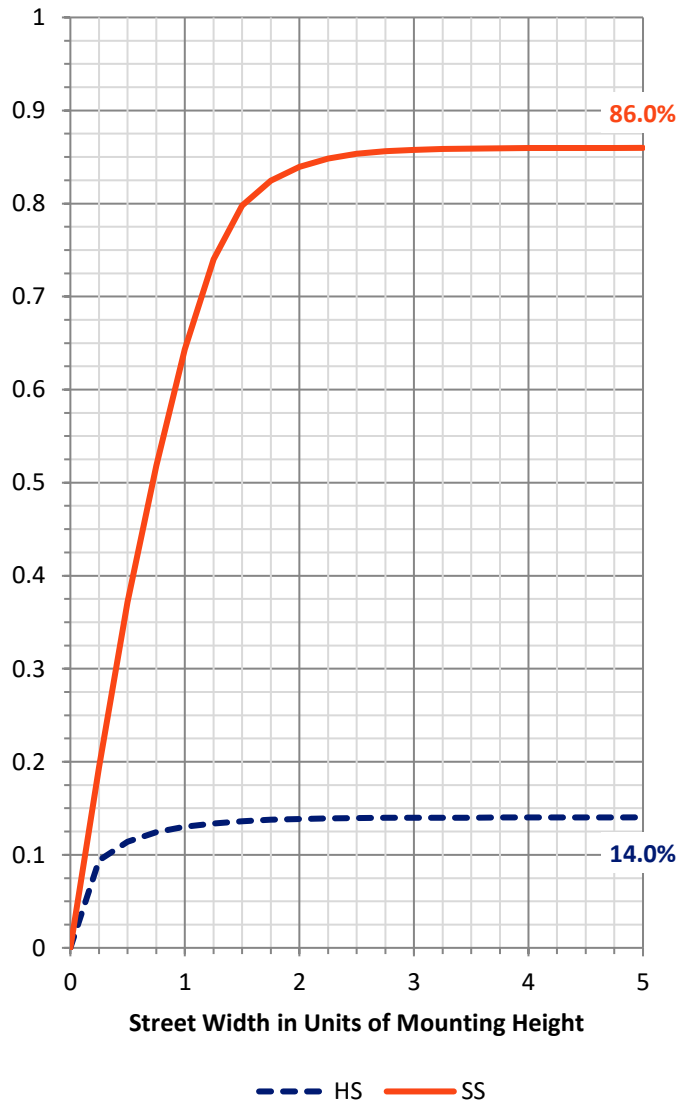
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5278.3	0.0	5278.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	32072.7	0.0	32072.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	37351.0	0.0	37351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1376.9	3.7
10°-20°	2939.6	7.9
20°-30°	3895.5	10.4
30°-40°	5661.3	15.2
40°-50°	8395.0	22.5
50°-60°	10497.6	28.1
60°-70°	4140.8	11.1
70°-80°	412.3	1.1
80°-90°	32.0	0.1
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°	37351.0	100.0
0°-180°	37351.0	100.0

Coefficient of Utilization

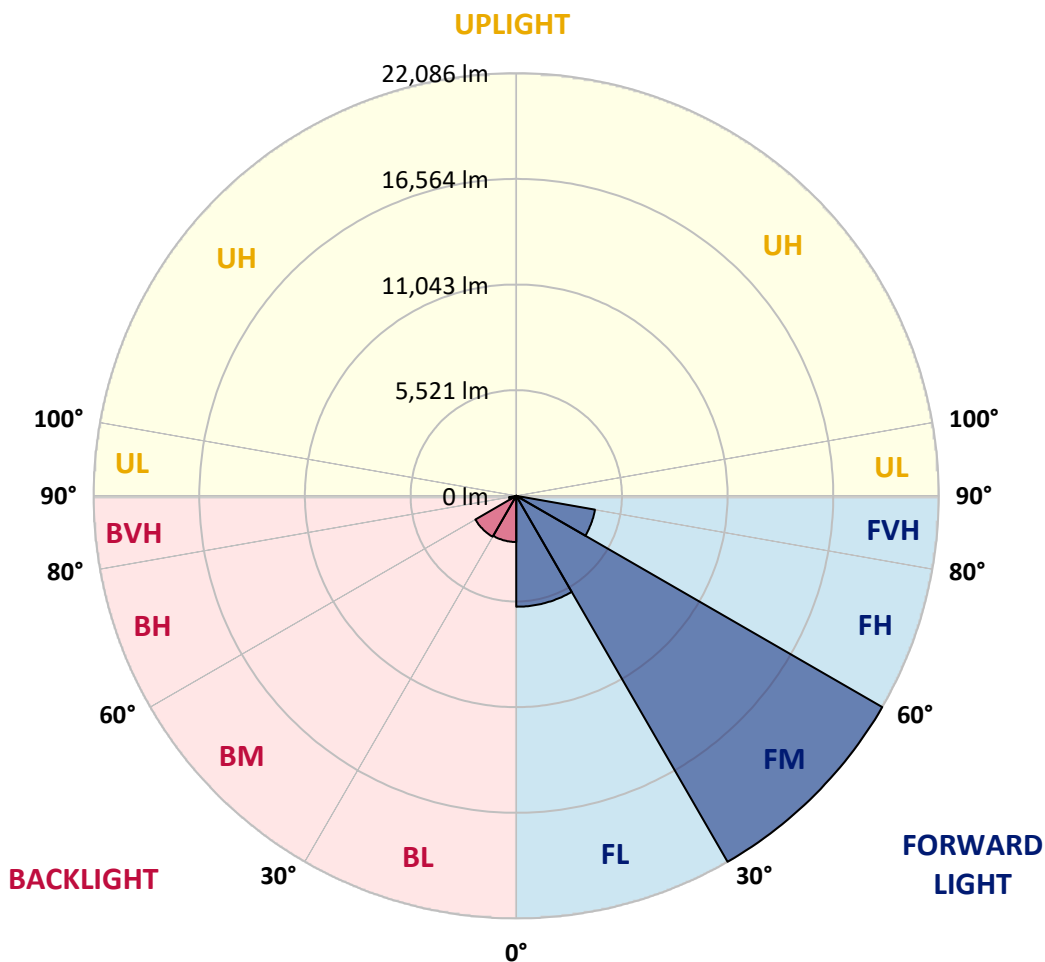


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5798.0	15.5			
FM (30°-60°)	22085.6	59.1			
FH (60°-80°)	4174.6	11.2			G2/5000
FVH (80°-90°)	14.6	0.0			G1/100
BL (0°-30°)	2414.1	6.5	B3/2500		
BM (30°-60°)	2468.3	6.6	B2/2500		
BH (60°-80°)	378.5	1.0	B1/500		G1/500
BVH (80°-90°)	17.5	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	16453.6	16453.6	16453.6	16453.6	16453.6	16453.6	16453.6	16453.6	16453.6	16453.6	16453.6
2.5°	17412.1	17231.5	17245.4	17182.9	17099.5	17162.0	16891.2	16953.7	16946.7	16578.6	16335.5
5°	16974.5	17169.0	16967.6	17134.3	16974.5	17148.2	16981.5	16856.5	16655.0	16384.2	15932.7
7.5°	16231.4	16043.8	16099.4	16307.8	16342.5	16731.4	16523.1	16682.8	16599.5	16064.7	15446.5
10°	14738.1	14696.4	14974.3	15252.1	15592.4	16009.1	16168.9	16078.6	16016.1	15814.6	14988.1
12.5°	13592.1	13710.2	13703.2	14161.6	14738.1	14974.3	15391.0	15377.1	15724.4	15349.3	14557.5
15°	12501.7	12564.2	12855.9	13140.7	13779.6	14453.3	14967.3	15036.8	15453.5	15189.6	14224.1
17.5°	11834.9	11744.6	11973.8	12314.2	12967.0	13849.1	14418.6	14585.3	15154.8	15099.3	13842.2
20°	11175.1	11175.1	11362.7	11765.5	12362.8	13356.0	14370.0	14321.4	15154.8	14995.1	13432.4
22.5°	10952.9	11064.0	11112.6	11418.2	12126.6	12980.9	14161.6	14251.9	15272.9	14946.5	13251.8
25°	11258.5	11112.6	11126.5	11369.6	12036.4	12800.3	14008.8	14210.3	15488.2	15189.6	13105.9
27.5°	11307.1	11452.9	11494.6	11661.3	12105.8	12855.9	14390.8	14800.6	16023.0	15759.1	13147.6
30°	11730.8	11876.6	11869.7	12154.4	12460.0	13307.4	15245.1	15328.5	17127.3	16474.5	13404.6
32.5°	12244.7	12397.5	12446.1	12779.5	13022.6	14133.9	16286.9	16502.2	18190.0	17599.6	14078.3
35°	12883.7	12828.1	13050.4	13383.8	13904.7	15342.4	17557.9	17919.1	19336.0	19058.1	14772.8
37.5°	13682.4	13613.0	13828.3	14370.0	15078.4	16773.1	18731.7	18967.8	20169.4	20412.5	16057.7
40°	14245.0	14272.8	14925.6	15654.9	16405.0	18134.4	19474.9	19704.1	20752.8	21676.5	17030.1
42.5°	15182.6	15356.2	16141.1	17030.1	17814.9	19155.4	20079.1	20301.4	21023.7	22690.6	18342.8
45°	16543.9	16467.5	17335.7	18328.9	19197.0	20218.0	20794.5	20718.1	21183.4	23697.7	19169.3
47.5°	18294.1	18308.0	18884.5	19731.8	20634.7	21141.8	21593.2	21322.3	21516.8	24760.3	20273.6
50°	19488.8	19592.9	20058.3	20926.4	21377.9	22155.8	22732.2	22565.6	22503.0	25399.3	20968.1
52.5°	19794.3	20106.9	20356.9	21440.4	22496.1	23725.4	24461.6	24815.9	23704.6	25614.6	21850.2
55°	17488.5	17766.3	18648.4	20134.7	22919.8	26211.9	27225.9	27232.9	25274.3	26573.0	22468.3
57.5°	13981.1	13418.5	13960.2	15536.8	19377.6	26107.7	28573.3	28246.9	26059.1	26010.5	21933.5
60°	9668.0	9529.1	9563.8	10188.9	13411.5	20766.7	25461.8	25885.5	23996.3	22544.7	17363.5
62.5°	7660.8	7542.7	7389.9	7320.4	8327.5	12939.3	17960.8	18558.1	16780.1	14620.0	10293.1
65°	6000.8	5931.4	5952.2	6230.0	6223.1	7341.3	9820.8	9577.7	7667.7	5667.4	3236.5
67.5°	4049.2	4153.3	4236.7	5077.1	5507.7	5111.8	4743.7	4604.8	2493.4	1048.8	715.4
70°	2278.1	2292.0	2382.3	3174.0	4181.1	3965.8	3271.3	3271.3	1243.2	382.0	409.8
72.5°	1243.2	1201.6	1118.2	1368.2	1861.4	1889.1	1458.5	1271.0	368.1	250.0	229.2
75°	604.2	597.3	514.0	423.7	402.8	333.4	257.0	236.1	166.7	159.7	138.9
77.5°	125.0	118.1	62.5	62.5	69.5	76.4	97.2	97.2	118.1	118.1	97.2
80°	0.0	0.0	6.9	27.8	48.6	69.5	83.3	83.3	97.2	97.2	76.4
82.5°	0.0	0.0	6.9	20.8	41.7	62.5	76.4	83.3	97.2	104.2	83.3
85°	0.0	0.0	0.0	13.9	34.7	48.6	41.7	41.7	34.7	27.8	13.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	16453.6	16453.6	16453.6	16453.6	16453.6	16453.6	16453.6	16453.6	16453.6	16453.6	16453.6
2.5°	16210.5	16196.6	15877.2	15696.6	15370.1	15085.4	14856.2	14689.5	14689.5	14585.3	14488.1
5°	15752.1	15634.1	14953.4	14515.9	13897.7	13439.3	13126.8	12883.7	12501.7	12605.9	12196.1
7.5°	15182.6	14884.0	13981.1	13314.3	12460.0	11807.2	11140.4	10550.0	9980.5	9723.5	9862.4
10°	14571.4	14050.5	12835.1	11779.4	10716.7	9522.1	8744.2	7799.7	7216.3	7181.5	7028.7
12.5°	13925.5	13335.1	11855.8	10397.2	9001.2	7563.5	6375.9	5493.8	5097.9	4660.4	4743.7
15°	13439.3	12564.2	10765.3	9008.2	7153.7	5702.2	4507.6	3826.9	3451.9	3347.7	3312.9
17.5°	12911.5	11973.8	9654.1	7528.8	5611.9	4104.7	3243.5	2917.1	2771.2	2771.2	2750.4
20°	12362.8	11307.1	8549.8	6153.6	4208.9	3062.9	2597.6	2493.4	2486.4	2479.5	2479.5
22.5°	12001.6	10543.1	7549.6	4889.6	3174.0	2451.7	2257.3	2215.6	2243.4	2326.7	2326.7
25°	11619.6	9806.9	6445.3	3771.3	2458.7	2104.5	1993.3	2021.1	2090.6	2167.0	2139.2
27.5°	11230.7	9327.7	5403.5	2958.7	2014.2	1840.5	1798.9	1861.4	1937.8	2007.2	1986.4
30°	11140.4	8813.7	4417.3	2243.4	1729.4	1604.4	1632.2	1687.7	1764.1	1791.9	1819.7
32.5°	11279.3	8410.9	3618.5	1840.5	1507.1	1472.4	1472.4	1500.2	1548.8	1611.3	1590.5
35°	11675.2	8181.7	2861.5	1597.4	1382.1	1347.4	1340.5	1368.2	1396.0	1416.9	1396.0
37.5°	12279.4	8001.1	2340.6	1416.9	1298.8	1243.2	1229.3	1222.4	1250.2	1257.1	1271.0
40°	13050.4	8098.3	1986.4	1305.7	1215.4	1152.9	1111.3	1111.3	1111.3	1132.1	1139.0
42.5°	13883.8	8230.3	1715.5	1243.2	1139.0	1062.6	1021.0	1007.1	1021.0	1048.8	1041.8
45°	14758.9	8487.3	1541.9	1146.0	1069.6	972.4	916.8	902.9	937.6	993.2	986.2
47.5°	15578.5	8855.4	1409.9	1083.5	1000.1	909.8	840.4	826.5	889.0	965.4	972.4
50°	16398.1	9494.3	1361.3	1034.9	951.5	847.3	784.8	770.9	840.4	937.6	958.5
52.5°	17342.6	10181.9	1326.6	972.4	896.0	798.7	729.3	715.4	791.8	916.8	923.7
55°	17960.8	10765.3	1298.8	861.2	791.8	722.3	666.8	659.8	743.2	854.3	882.1
57.5°	17238.4	9952.7	1201.6	750.1	673.7	639.0	590.4	590.4	659.8	764.0	784.8
60°	13071.2	6549.5	854.3	604.2	569.5	548.7	527.8	527.8	583.4	659.8	666.8
62.5°	7653.8	3528.3	548.7	486.2	486.2	465.3	430.6	430.6	486.2	527.8	534.8
65°	2271.1	1132.1	444.5	416.7	409.8	375.1	340.3	333.4	375.1	395.9	388.9
67.5°	652.9	520.9	368.1	347.3	340.3	284.8	263.9	257.0	263.9	250.0	243.1
70°	388.9	354.2	284.8	291.7	257.0	208.4	187.5	180.6	166.7	145.9	132.0
72.5°	215.3	215.3	208.4	222.3	180.6	138.9	118.1	97.2	76.4	62.5	55.6
75°	132.0	138.9	145.9	152.8	118.1	90.3	76.4	48.6	27.8	13.9	13.9
77.5°	90.3	97.2	104.2	111.1	97.2	83.3	62.5	34.7	6.9	0.0	0.0
80°	69.5	76.4	90.3	97.2	104.2	111.1	83.3	34.7	6.9	0.0	0.0
82.5°	76.4	83.3	104.2	97.2	97.2	97.2	76.4	34.7	6.9	0.0	0.0
85°	13.9	20.8	34.7	34.7	48.6	62.5	48.6	13.9	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)