

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: P383474

Luminaire Tested: **GLEON-SA7D-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7D-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43677.5 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

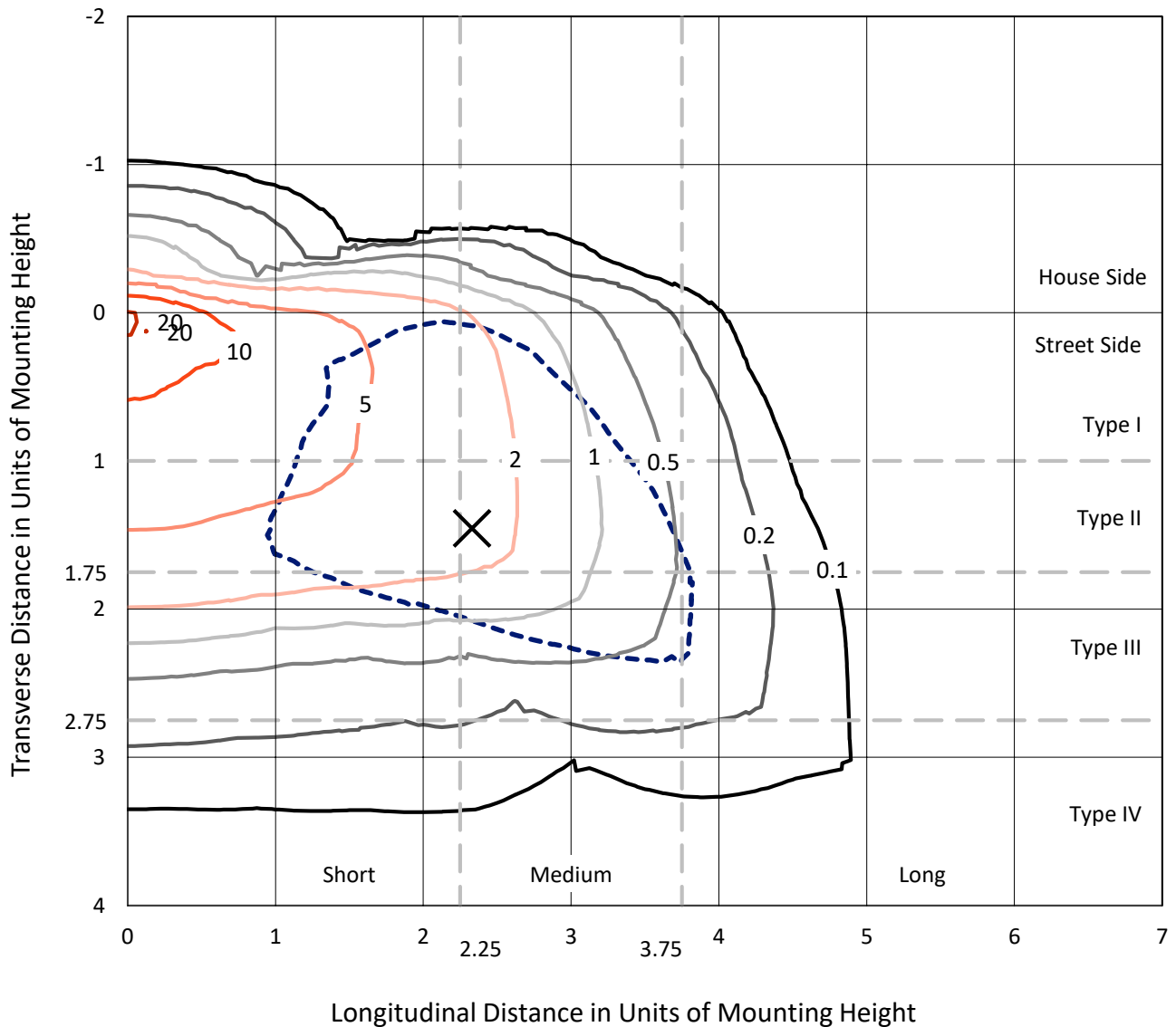
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

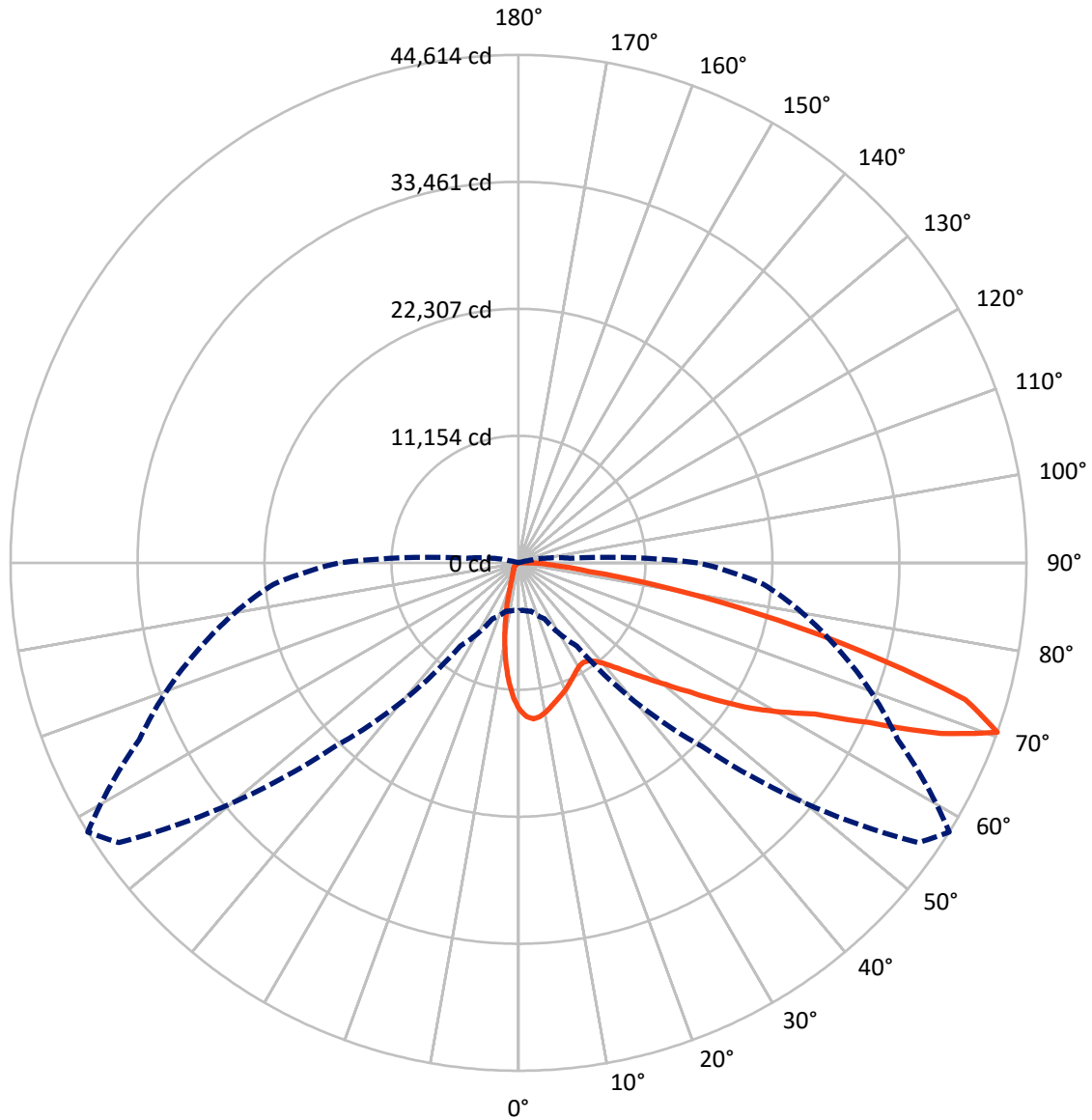
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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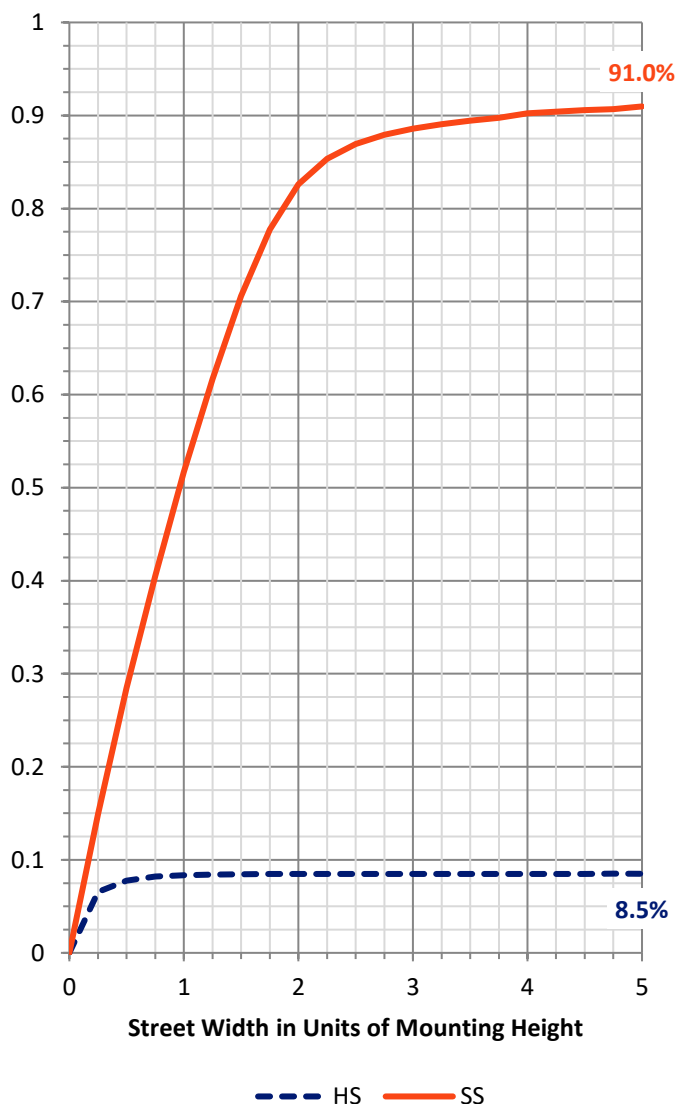
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3737.8	0.0	3737.8
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	39939.7	0.0	39939.7
	% Fixture	91.4	0.0	91.4
Total	Lumens	43677.5	0.0	43677.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1055.1	2.4
10°-20°	2214.3	5.1
20°-30°	2911.1	6.7
30°-40°	3855.4	8.8
40°-50°	5762.6	13.2
50°-60°	9231.5	21.1
60°-70°	11636.2	26.6
70°-80°	6276.5	14.4
80°-90°	734.7	1.7
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°	43677.5	100.0
0°-180°	43677.5	100.0

Coefficient of Utilization

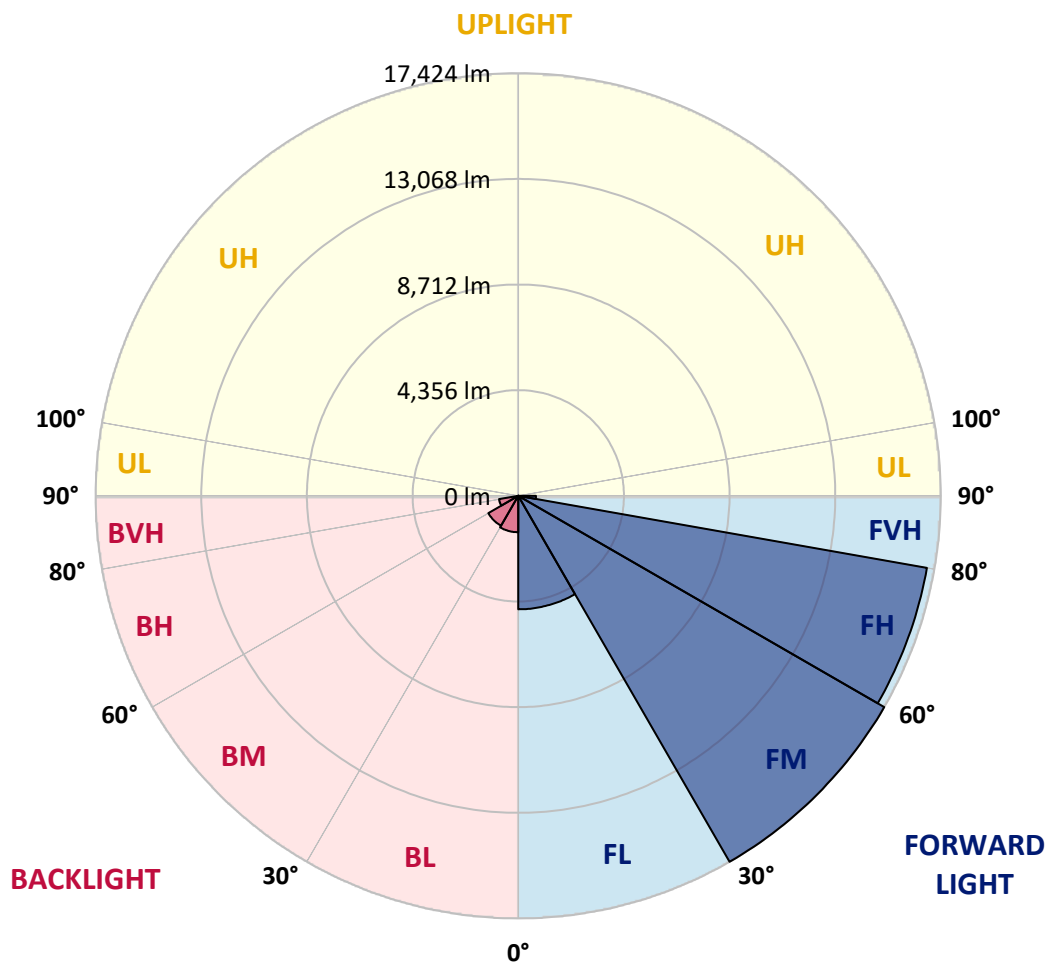


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4678.8	10.7			
FM (30°-60°)	17423.6	39.9			
FH (60°-80°)	17108.9	39.2			G5
FVH (80°-90°)	728.3	1.7			G4/750
BL (0°-30°)	1501.7	3.4	B3/2500		
BM (30°-60°)	1425.9	3.3	B2/2500		
BH (60°-80°)	803.8	1.8	B2/1000		G2/1000
BVH (80°-90°)	6.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12902.1	12902.1	12902.1	12902.1	12902.1	12902.1	12902.1	12902.1	12902.1	12902.1	12902.1
2.5°	13971.8	13937.3	13924.6	13902.8	13819.3	13737.5	13575.9	13530.5	13428.8	13187.3	12931.2
5°	13982.7	13980.9	14019.0	14010.0	13980.9	13942.8	13826.6	13766.6	13594.1	13249.0	12780.5
7.5°	13308.9	13343.5	13428.8	13497.8	13577.8	13681.3	13695.8	13637.7	13496.0	13123.7	12502.6
10°	12404.5	12459.0	12578.9	12715.1	12923.9	13131.0	13316.2	13308.9	13259.9	12893.0	12168.3
12.5°	11498.2	11561.8	11699.8	11901.4	12197.4	12535.3	12865.8	12911.2	12992.9	12686.0	11859.6
15°	10704.5	10759.0	10895.3	11142.2	11509.1	11963.1	12448.1	12531.6	12742.3	12524.4	11601.8
17.5°	10030.7	10065.3	10165.1	10439.4	10864.4	11414.6	12044.9	12208.3	12522.5	12397.2	11378.4
20°	9560.4	9565.8	9631.2	9823.7	10248.7	10864.4	11627.2	11861.5	12290.1	12288.2	11147.7
22.5°	9327.9	9309.7	9322.5	9433.2	9745.6	10339.5	11209.4	11487.3	12081.2	12195.6	10913.4
25°	9284.3	9269.7	9233.4	9247.9	9436.9	9880.0	10788.1	11109.5	11897.8	12139.4	10710.0
27.5°	9420.6	9435.0	9373.3	9307.9	9322.5	9582.2	10414.0	10786.3	11748.9	12139.4	10566.5
30°	9694.7	9702.0	9656.6	9571.3	9456.8	9498.6	10154.2	10526.6	11674.3	12222.8	10475.7
32.5°	9998.0	10038.0	10032.6	9963.6	9800.1	9631.2	10092.5	10432.1	11668.9	12408.1	10466.6
35°	10374.0	10419.4	10495.7	10481.1	10310.5	10032.6	10303.2	10570.2	11776.1	12713.2	10564.7
37.5°	10773.5	10842.6	11006.0	11084.1	10973.4	10659.1	10775.4	10966.1	12063.1	13207.2	10813.5
40°	11160.4	11238.5	11536.4	11843.3	11759.8	11436.4	11490.9	11643.5	12573.4	13917.3	11285.7
42.5°	11540.0	11656.2	12093.9	12598.8	12698.7	12440.8	12469.9	12591.5	13330.7	14894.4	12057.6
45°	11994.0	12124.8	12773.2	13396.1	13663.1	13550.5	13674.0	13753.9	14320.6	16185.7	13098.3
47.5°	12660.6	12811.3	13606.8	14317.0	14785.5	14858.2	15107.0	15159.6	15571.9	17689.5	14454.9
50°	13960.9	14002.7	14721.9	15366.7	16042.3	16478.1	16761.5	16801.5	17086.6	19333.2	16149.4
52.5°	15597.4	15624.6	16031.4	16463.6	17231.9	18121.8	18784.8	18841.0	18900.9	20935.0	17822.2
55°	17222.8	17219.2	17487.9	17742.3	18621.3	19914.3	21352.7	21387.3	20956.8	22455.2	19100.7
57.5°	18238.0	18336.1	18744.8	19071.7	20299.4	21957.6	23953.5	24080.7	23116.3	23581.2	20364.7
60°	17914.8	17962.0	18868.2	20077.8	22389.8	24861.6	26585.2	26617.9	24739.9	24705.5	21963.0
62.5°	15263.1	15288.6	16712.4	19206.1	23448.6	28628.4	29759.9	29227.8	26607.0	26265.5	23875.5
65°	10461.2	10626.4	11816.0	14898.1	21503.6	30991.2	34674.4	33793.6	29452.9	28513.9	25604.4
67.5°	6160.5	6126.0	6714.4	8984.6	15793.5	29422.1	40891.2	40015.8	33334.1	30019.6	25097.8
70°	4208.1	4184.5	4409.7	5439.5	8915.7	22823.8	42847.3	44614.4	36761.2	29006.2	21599.8
72.5°	3004.0	3016.6	3349.0	4226.2	5597.5	13298.0	36846.6	41029.3	35687.9	25286.7	16418.2
75°	2039.5	2074.1	2549.9	3467.1	4907.3	6765.3	26147.5	31189.2	29060.7	18377.9	9436.9
77.5°	1097.0	1135.1	1696.3	2793.2	4437.0	4700.3	16819.7	21465.4	18254.4	8261.8	2735.1
80°	457.7	479.5	793.7	2030.5	3834.0	4128.2	9896.4	13016.5	7778.7	1629.1	610.3
82.5°	198.0	208.9	330.5	1211.4	2865.9	3485.2	5239.7	6262.1	2357.4	357.8	306.9
85°	38.1	40.0	136.2	641.1	1828.9	1967.0	3396.2	3329.1	1058.8	154.4	223.4
87.5°	0.0	0.0	32.7	201.6	537.6	1071.6	2072.2	2046.8	359.6	74.4	83.6
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°	12902.1	12902.1	12902.1	12902.1	12902.1	12902.1	12902.1	12902.1	12902.1	12902.1	12902.1
2.5°	12800.4	12675.1	12411.8	12086.6	11837.8	11563.6	11345.7	11069.6	10949.7	10955.2	10889.8
5°	12513.5	12255.5	11672.6	10937.0	10370.4	9785.5	9282.5	8781.2	8485.2	8389.0	8298.1
7.5°	12103.0	11694.4	10764.5	9631.2	8672.2	7735.1	6919.6	6202.2	5748.2	5526.6	5444.9
10°	11639.9	11065.9	9720.1	8227.2	6857.9	5590.2	4533.2	3614.2	3247.3	2998.5	2934.9
12.5°	11233.1	10455.7	8699.4	6787.1	5161.6	3632.4	2624.4	2052.3	1803.5	1705.4	1689.1
15°	10849.8	9885.5	7716.9	5483.0	3574.3	2235.7	1669.1	1474.7	1416.6	1400.3	1400.3
17.5°	10488.4	9342.4	6756.1	4199.0	2364.6	1567.3	1382.1	1338.5	1320.4	1318.5	1320.4
20°	10110.6	8799.4	5811.7	3076.6	1650.9	1327.6	1276.8	1253.1	1247.7	1247.7	1247.7
22.5°	9749.2	8256.3	4892.8	2197.6	1324.0	1211.4	1186.0	1169.7	1164.2	1162.4	1158.8
25°	9402.4	7740.5	3995.6	1552.8	1162.4	1109.7	1087.9	1066.1	1049.8	1040.6	1035.2
27.5°	9117.2	7281.1	3160.2	1245.9	1049.8	1004.3	977.1	944.4	904.4	886.3	879.0
30°	8890.2	6861.5	2435.5	1051.5	944.4	899.0	857.2	800.9	742.8	712.0	710.1
32.5°	8712.2	6449.2	1848.8	929.9	849.9	793.7	733.8	662.9	595.7	561.2	559.4
35°	8625.0	6086.0	1413.0	840.9	766.4	695.6	621.2	543.0	477.7	445.0	441.4
37.5°	8683.1	5779.0	1102.4	766.4	695.6	613.9	526.7	445.0	386.9	357.8	355.9
40°	8895.6	5583.0	895.4	702.9	635.7	535.7	441.4	365.1	316.0	292.4	290.5
42.5°	9347.9	5510.3	764.6	650.2	577.6	463.2	366.8	301.4	256.1	239.8	236.1
45°	10103.4	5617.4	675.7	599.4	517.6	394.1	303.3	247.0	207.1	194.3	192.6
47.5°	11109.5	5898.9	612.0	550.3	463.2	332.4	252.4	199.8	168.9	156.2	154.4
50°	12406.3	6345.7	559.4	501.3	412.3	281.5	208.9	158.0	130.8	121.7	121.7
52.5°	13817.5	6877.9	512.2	455.9	361.4	234.3	168.9	121.7	103.5	92.6	92.6
55°	14983.5	7342.8	461.3	421.3	299.7	194.3	128.9	92.6	76.3	70.8	70.8
57.5°	16147.6	7838.6	403.2	361.4	239.8	158.0	98.1	69.0	56.3	52.6	52.6
60°	17656.8	8445.2	346.9	294.2	188.9	119.9	72.7	49.0	41.7	40.0	40.0
62.5°	19316.9	8801.2	296.0	236.1	147.1	89.0	52.6	32.7	30.8	30.8	29.1
65°	20332.1	8298.1	248.8	188.9	114.4	67.2	34.5	23.6	27.2	25.4	21.8
67.5°	19037.2	6496.4	203.4	147.1	89.0	50.9	21.8	16.3	29.1	23.6	18.2
70°	15762.6	4547.7	158.0	103.5	70.8	43.6	14.5	10.9	30.8	23.6	14.5
72.5°	11796.1	3043.9	125.3	69.0	52.6	38.1	12.7	5.4	27.2	19.9	12.7
75°	6445.7	1225.9	99.9	43.6	32.7	27.2	9.0	3.6	18.2	14.5	9.0
77.5°	1696.3	323.2	72.7	29.1	18.2	10.9	5.4	1.8	9.0	7.3	3.6
80°	432.2	125.3	47.2	19.9	12.7	5.4	0.0	0.0	1.8	0.0	0.0
82.5°	230.7	52.6	29.1	14.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	174.4	34.5	16.3	9.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	67.2	10.9	5.4	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)