

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: P383484

Luminaire Tested: **GLEON-SA7D-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
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-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41266.6 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

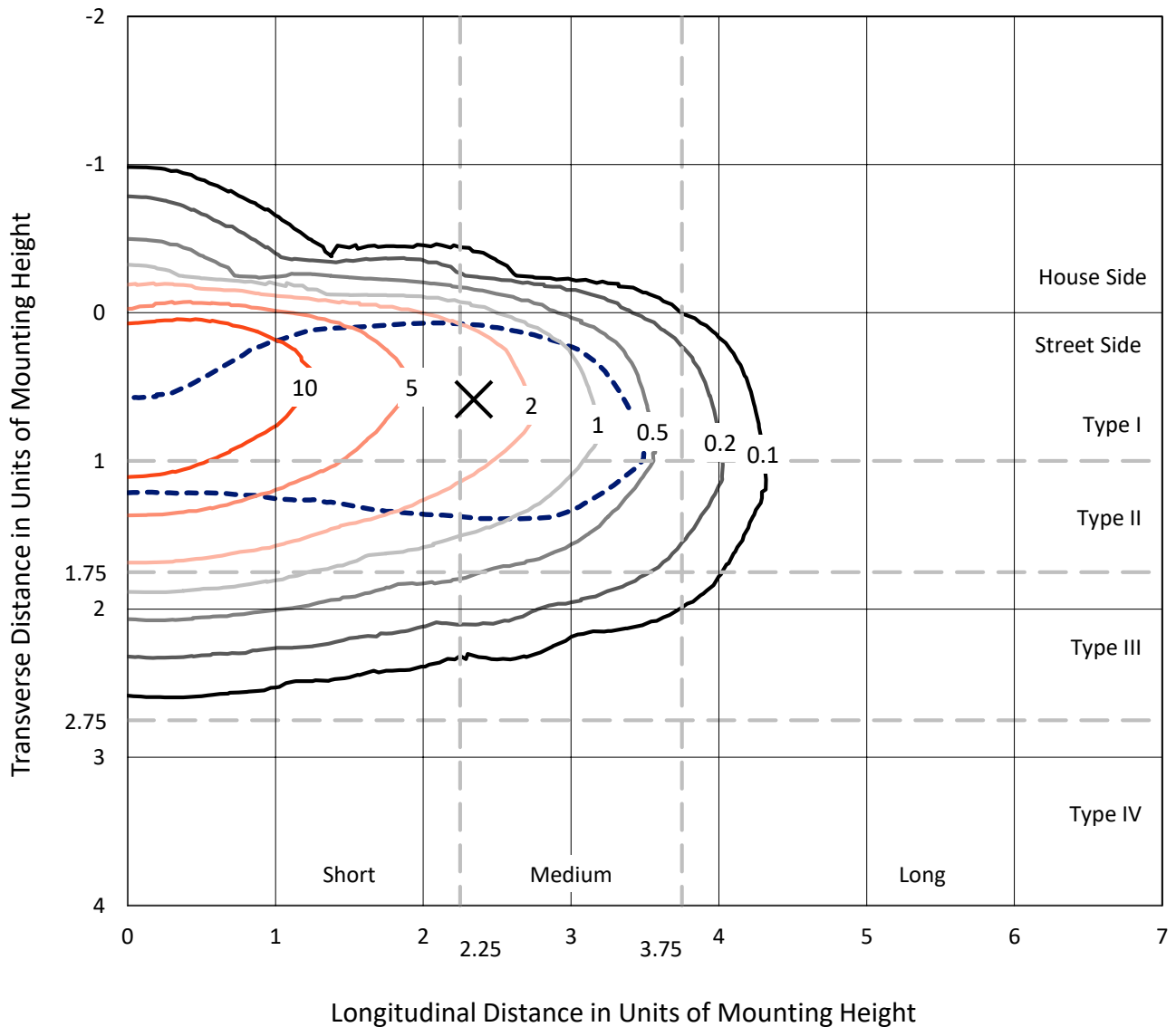
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

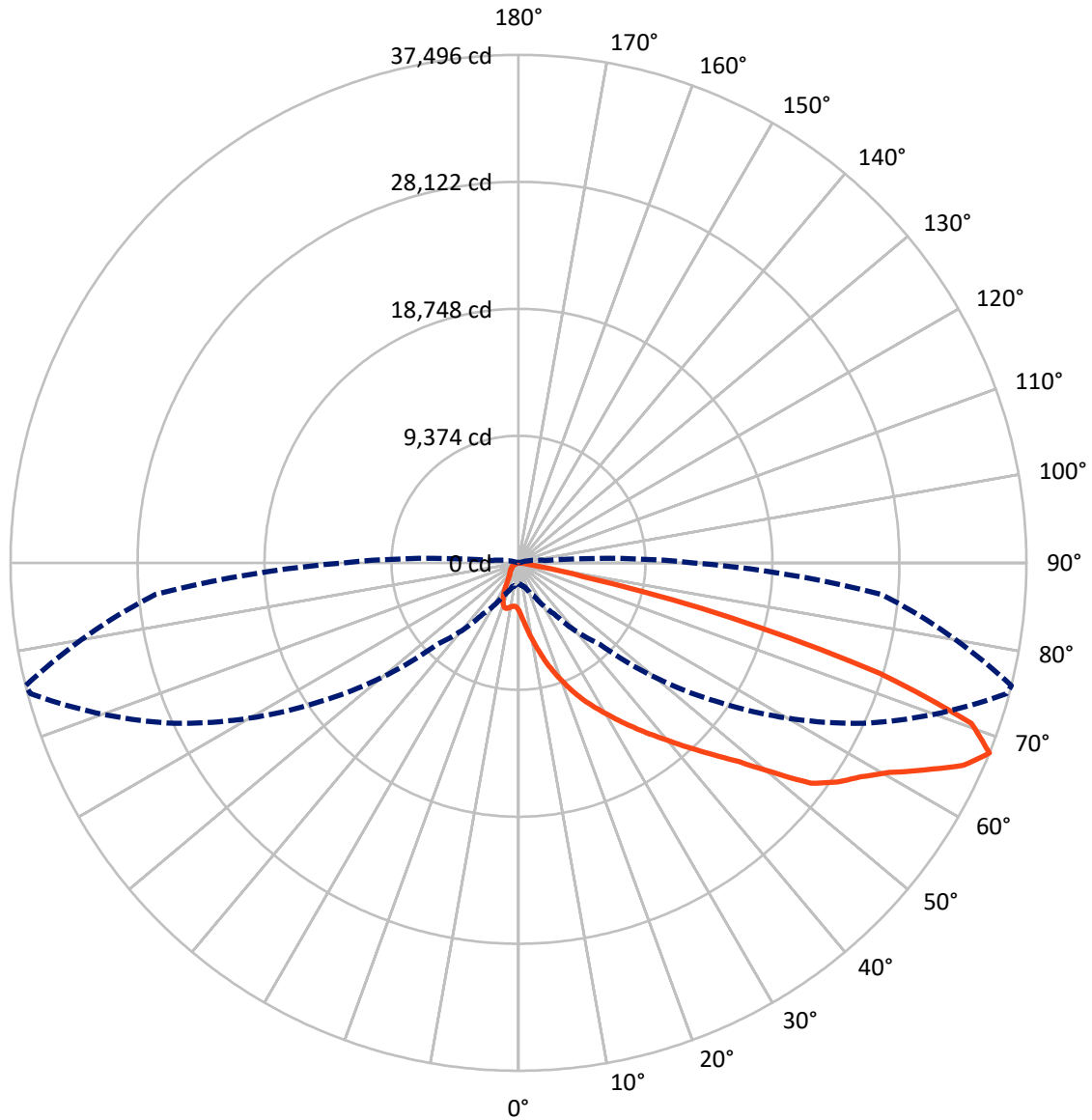
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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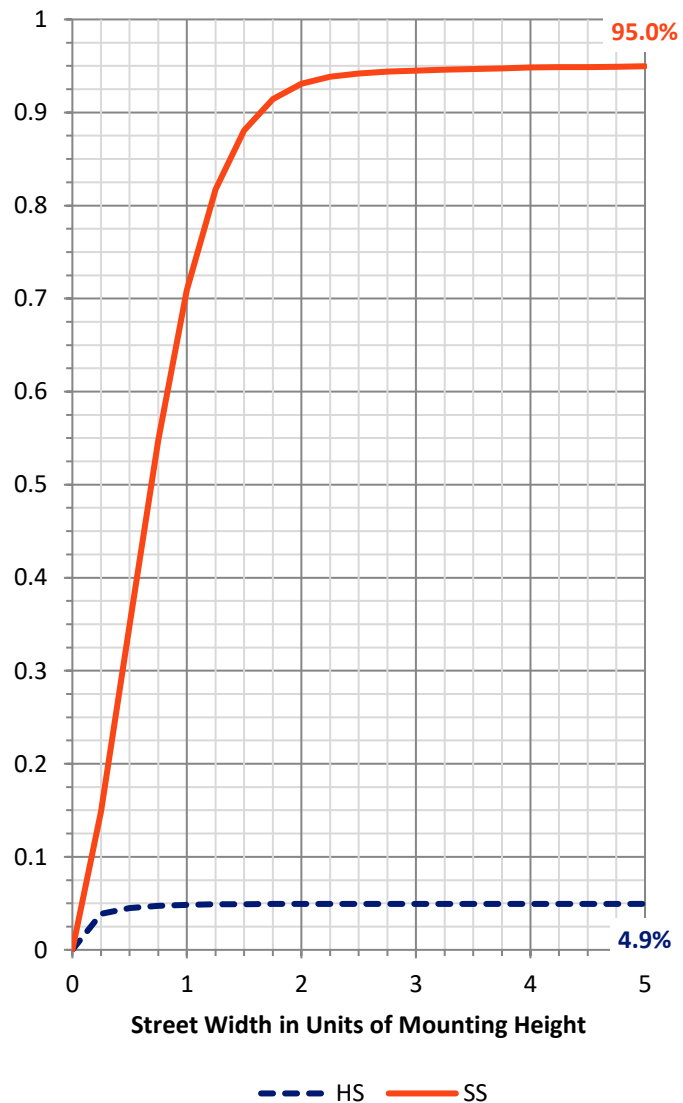
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2049.2	0.0	2049.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	39217.4	0.0	39217.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	41266.6	0.0	41266.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.3	1.1
10°-20°	1725.6	4.2
20°-30°	3511.0	8.5
30°-40°	6093.9	14.8
40°-50°	8609.9	20.9
50°-60°	9764.0	23.7
60°-70°	8098.4	19.6
70°-80°	2933.5	7.1
80°-90°	95.1	0.2
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°	41266.6	100.0
0°-180°	41266.6	100.0

Coefficient of Utilization

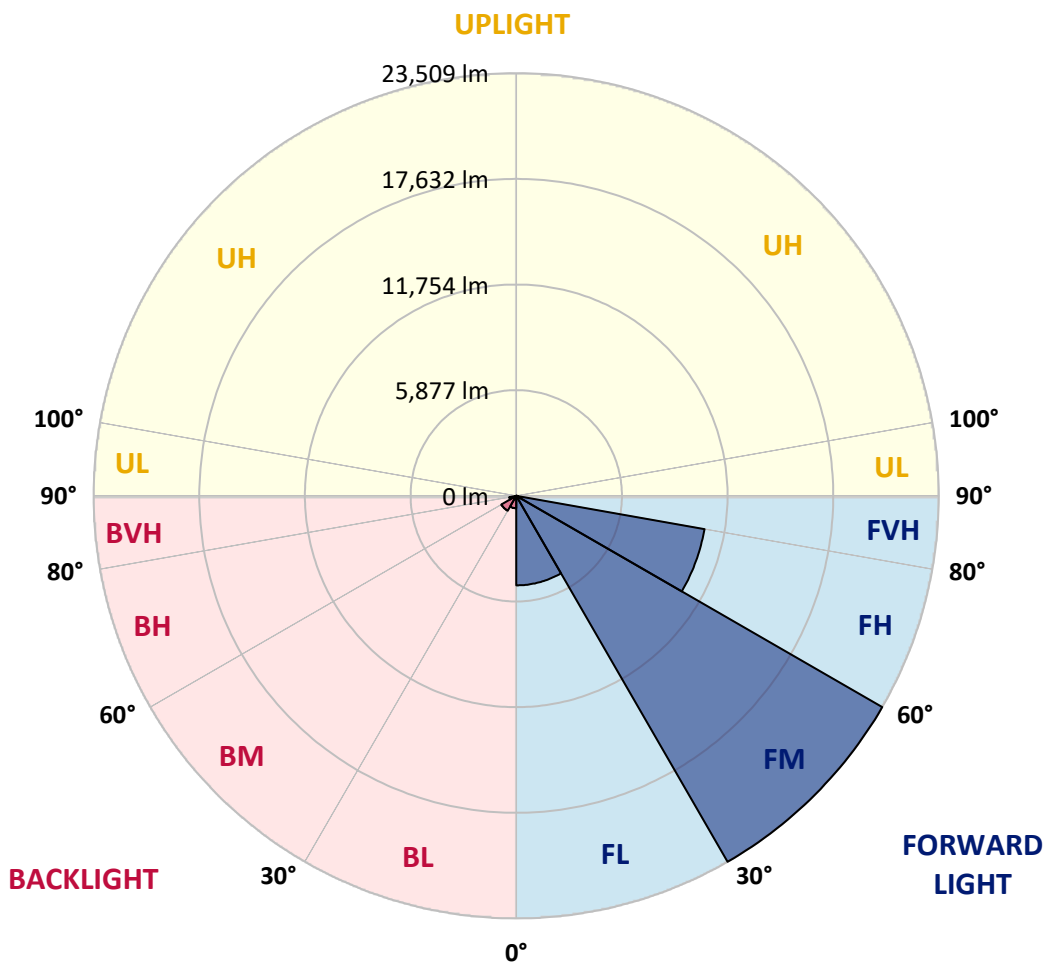


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4980.7	12.1			
FM (30°-60°)	23508.8	57.0			
FH (60°-80°)	10635.8	25.8			G4/12000
FVH (80°-90°)	92.1	0.2			G1/100
BL (0°-30°)	691.1	1.7	B2/1000		
BM (30°-60°)	959.1	2.3	B1/1000		
BH (60°-80°)	396.0	1.0	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6
2.5°	5225.6	5108.0	5135.2	5059.2	4921.8	4639.8	4399.2	4171.5	3905.6	3896.6	3677.8
5°	7046.4	6946.9	6934.3	6780.6	6531.1	6051.9	5585.4	5053.8	4460.7	4417.3	3952.6
7.5°	8699.1	8619.5	8590.5	8408.0	7943.3	7476.8	6869.2	6088.1	5160.5	5080.9	4323.3
10°	9968.4	9930.4	9937.7	9807.5	9409.7	8975.7	8178.3	7182.0	5954.3	5831.3	4768.1
12.5°	10930.3	10939.3	11004.5	10924.9	10702.6	10380.7	9529.0	8348.3	6833.1	6664.9	5276.2
15°	11637.4	11682.5	11801.9	11901.4	11885.1	11606.6	10825.5	9532.6	7766.0	7579.8	5842.2
17.5°	12094.8	12145.4	12319.1	12539.7	12742.2	12677.1	12076.8	10675.4	8710.0	8494.8	6447.9
20°	12496.2	12555.9	12742.2	13033.3	13411.1	13492.5	13098.3	11783.8	9652.0	9389.8	7073.5
22.5°	13365.9	13364.2	13478.1	13648.0	14007.9	14217.6	13968.1	12812.7	10583.2	10310.2	7711.8
25°	14939.0	14879.4	14839.6	14705.8	14785.3	14915.6	14776.3	13774.6	11519.8	11243.1	8359.1
27.5°	16808.7	16844.9	16523.0	16163.2	15884.7	15750.9	15523.1	14666.0	12420.2	12116.5	8992.0
30°	18781.4	18792.2	18412.5	17953.3	17340.3	16832.2	16438.0	15517.6	13346.1	13015.1	9606.8
32.5°	20560.7	20490.1	20114.0	19488.3	18714.5	18143.1	17324.0	16468.7	14326.1	14006.0	10290.2
35°	21971.0	21887.8	21430.3	20860.8	20058.0	19482.9	18497.6	17418.1	15356.7	15043.9	10975.6
37.5°	23001.7	22904.1	22433.9	21848.1	21155.5	20821.0	19859.1	18450.5	16481.4	16145.1	11697.0
40°	23359.7	23274.7	22980.0	22551.5	21994.5	21918.6	21303.7	19638.4	17705.6	17347.6	12514.3
42.5°	23146.3	23063.2	22958.3	22813.6	22582.2	22654.5	22667.2	20992.8	19065.2	18712.6	13416.6
45°	22300.0	22226.0	22334.4	22546.0	22833.5	23191.5	23911.2	22448.3	20584.1	20208.1	14459.9
47.5°	21054.3	21000.0	21300.2	21828.1	22668.9	23656.2	25048.5	23978.0	22289.2	21940.3	15761.8
50°	19282.3	19273.3	19873.5	20837.3	22130.1	23880.4	26223.8	25717.5	24658.0	24290.8	17571.8
52.5°	16523.0	16541.1	17721.9	19264.2	21184.4	23728.6	26979.6	27952.4	27413.6	27032.0	19139.4
55°	13895.7	14004.2	14841.4	17065.5	19734.3	23164.4	27239.9	28995.7	28934.2	28572.6	20010.9
57.5°	11322.7	11519.8	12326.2	14403.9	17617.0	21864.4	27097.1	29447.7	30066.2	29789.5	21160.9
60°	8534.6	8624.9	9554.3	11496.3	14899.3	19492.0	26061.1	29693.6	31613.9	31422.3	22829.9
62.5°	5429.9	5655.9	6480.5	8353.7	11601.2	16197.6	24314.4	29690.0	33550.5	33655.3	24983.4
65°	2860.5	3124.5	3562.1	5176.8	7972.2	12518.0	21687.1	29411.6	35926.4	36072.9	26666.8
67.5°	1542.4	1618.3	1849.8	2687.0	4623.5	8480.3	17826.7	28037.3	37302.4	37495.9	26901.9
70°	1128.3	1169.8	1256.7	1486.3	2327.1	4925.5	13007.9	24921.9	35528.6	35456.3	23902.1
72.5°	866.2	931.2	996.3	1088.5	1338.1	2629.1	8098.8	19515.5	28348.4	27871.1	17866.4
75°	683.5	694.4	786.5	869.7	1003.6	1497.2	3596.4	11366.1	17302.3	16172.2	9265.0
77.5°	546.1	553.3	607.6	679.8	806.4	983.6	1113.9	4471.6	5524.0	4929.1	2010.7
80°	323.6	341.8	452.1	524.4	669.0	620.2	406.8	971.0	862.5	781.1	338.2
82.5°	180.8	195.3	255.0	414.1	466.5	296.5	202.5	262.1	202.5	197.1	95.9
85°	0.0	9.0	164.5	256.7	189.8	65.1	85.0	86.8	59.7	56.1	38.0
87.5°	0.0	0.0	50.6	48.8	7.3	10.8	19.9	29.0	23.5	23.5	19.9
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°	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6
2.5°	3569.3	3471.7	3287.2	3106.4	2954.5	2829.8	2717.7	2672.4	2636.3	2630.9	2601.9
5°	3728.4	3531.3	3178.7	2889.5	2696.0	2558.6	2441.0	2368.7	2312.7	2291.0	2271.0
7.5°	3969.0	3670.6	3164.3	2831.6	2600.1	2368.7	2151.7	1916.7	1770.2	1714.1	1681.6
10°	4261.8	3855.0	3218.5	2815.3	2410.3	1922.1	1562.3	1263.9	1142.7	1103.0	1092.1
12.5°	4603.6	4084.6	3312.6	2714.1	2005.2	1365.2	1077.7	976.4	949.2	936.7	936.7
15°	4996.0	4336.0	3379.5	2421.1	1482.7	1032.4	933.0	886.0	857.0	840.8	842.6
17.5°	5397.4	4581.9	3347.0	1996.2	1093.9	918.5	844.4	793.8	754.0	737.7	734.2
20°	5802.4	4809.7	3166.1	1486.3	925.8	833.5	750.4	694.4	654.6	638.3	634.7
22.5°	6221.9	5003.2	2847.8	1090.3	831.8	739.6	658.1	602.2	564.1	549.7	542.4
25°	6630.6	5160.5	2403.0	882.4	743.2	651.0	573.2	520.7	486.4	471.9	470.2
27.5°	7012.0	5260.0	1887.7	779.3	665.4	571.4	500.9	453.8	424.9	414.1	412.3
30°	7355.6	5269.0	1395.9	703.4	596.7	502.7	437.5	396.0	370.7	359.9	356.2
32.5°	7702.8	5193.0	1016.2	634.7	533.4	443.0	379.7	347.2	329.1	320.1	320.1
35°	8030.0	5017.7	792.0	575.0	471.9	385.1	334.5	311.0	300.1	291.1	291.1
37.5°	8350.1	4766.4	672.7	522.6	414.1	336.3	294.7	280.3	271.3	262.1	262.1
40°	8675.6	4449.9	611.2	473.8	367.0	298.4	262.1	249.6	240.5	233.3	231.5
42.5°	9075.1	4084.6	571.4	428.5	325.5	264.0	231.5	217.0	209.8	202.5	198.9
45°	9538.0	3770.1	538.8	383.3	291.1	235.0	200.7	186.2	175.4	166.4	164.5
47.5°	10205.3	3542.2	495.4	334.5	258.6	204.3	173.5	157.3	141.0	132.0	130.2
50°	11056.9	3354.1	439.4	291.1	226.0	173.5	144.7	124.7	110.3	101.3	101.3
52.5°	11480.0	3108.2	388.7	253.1	189.8	146.4	117.6	94.0	86.8	77.8	77.8
55°	11650.0	2920.2	338.2	215.2	157.3	121.1	92.2	72.3	66.9	61.5	59.7
57.5°	12127.4	2865.9	294.7	182.6	130.2	95.9	70.5	54.2	50.6	43.4	43.4
60°	12895.8	2893.1	255.0	155.5	104.9	74.2	52.4	41.5	38.0	30.7	30.7
62.5°	13725.8	2858.7	215.2	133.8	81.3	54.2	36.1	30.7	30.7	18.1	16.3
65°	13884.9	2545.9	184.4	110.3	63.3	39.8	23.5	19.9	27.1	3.6	0.0
67.5°	12886.8	1974.5	159.1	85.0	47.0	30.7	18.1	9.0	23.5	0.0	0.0
70°	10304.7	1254.9	128.4	61.5	36.1	25.3	14.4	3.6	18.1	0.0	0.0
72.5°	7286.9	728.7	101.3	43.4	30.7	19.9	10.8	0.0	10.8	0.0	0.0
75°	3685.0	388.7	63.3	32.5	23.5	14.4	7.3	0.0	1.8	0.0	0.0
77.5°	797.4	180.8	39.8	23.5	16.3	9.0	3.6	0.0	0.0	0.0	0.0
80°	173.5	79.6	25.3	14.4	9.0	5.4	0.0	0.0	0.0	0.0	0.0
82.5°	63.3	41.5	12.7	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.4	21.7	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.1	7.3	1.8	1.8	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)