

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: P321414

Luminaire Tested: **GLEON-SA0C-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321414
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-SA0C-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1050mA 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: 41541 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

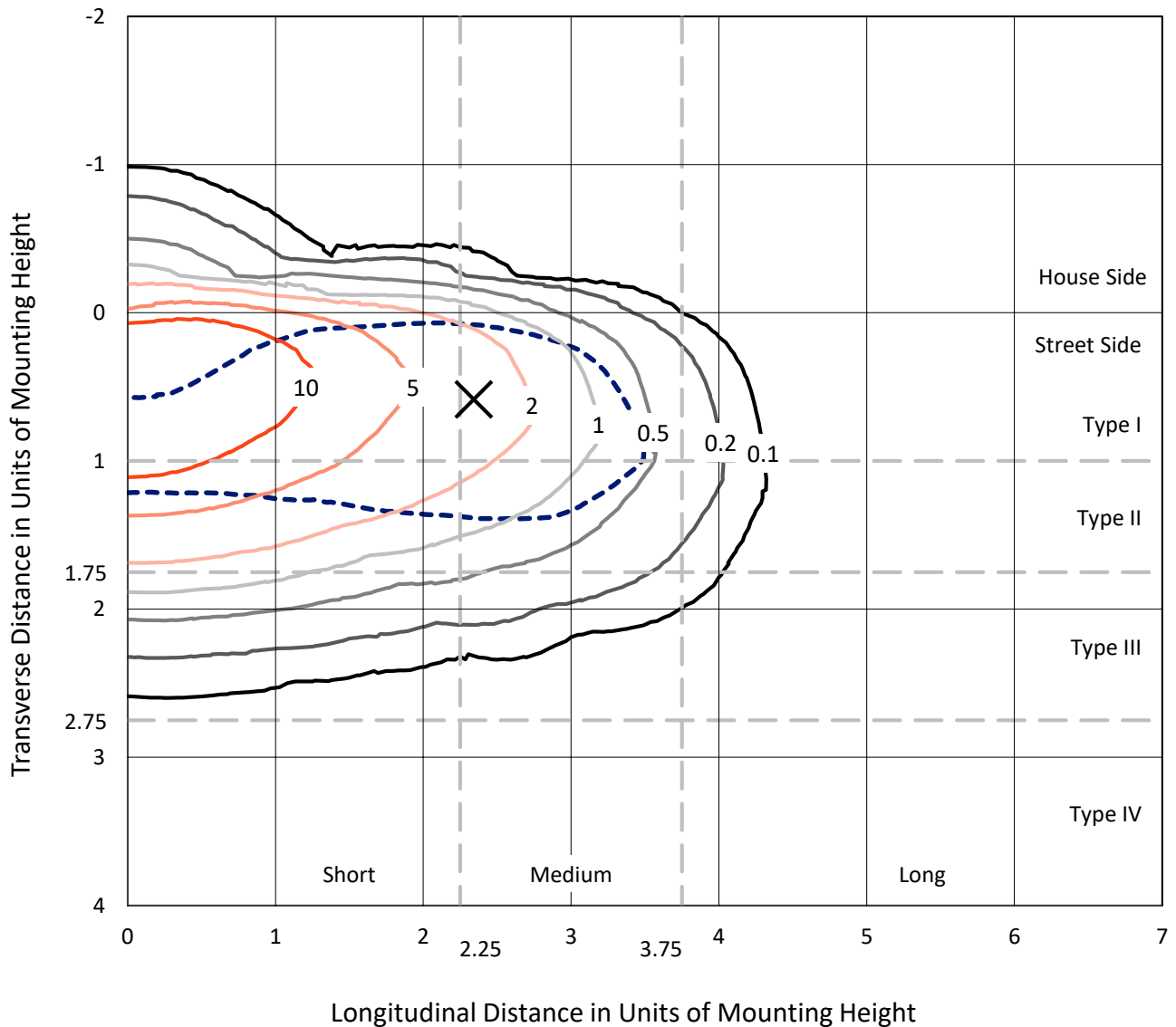
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

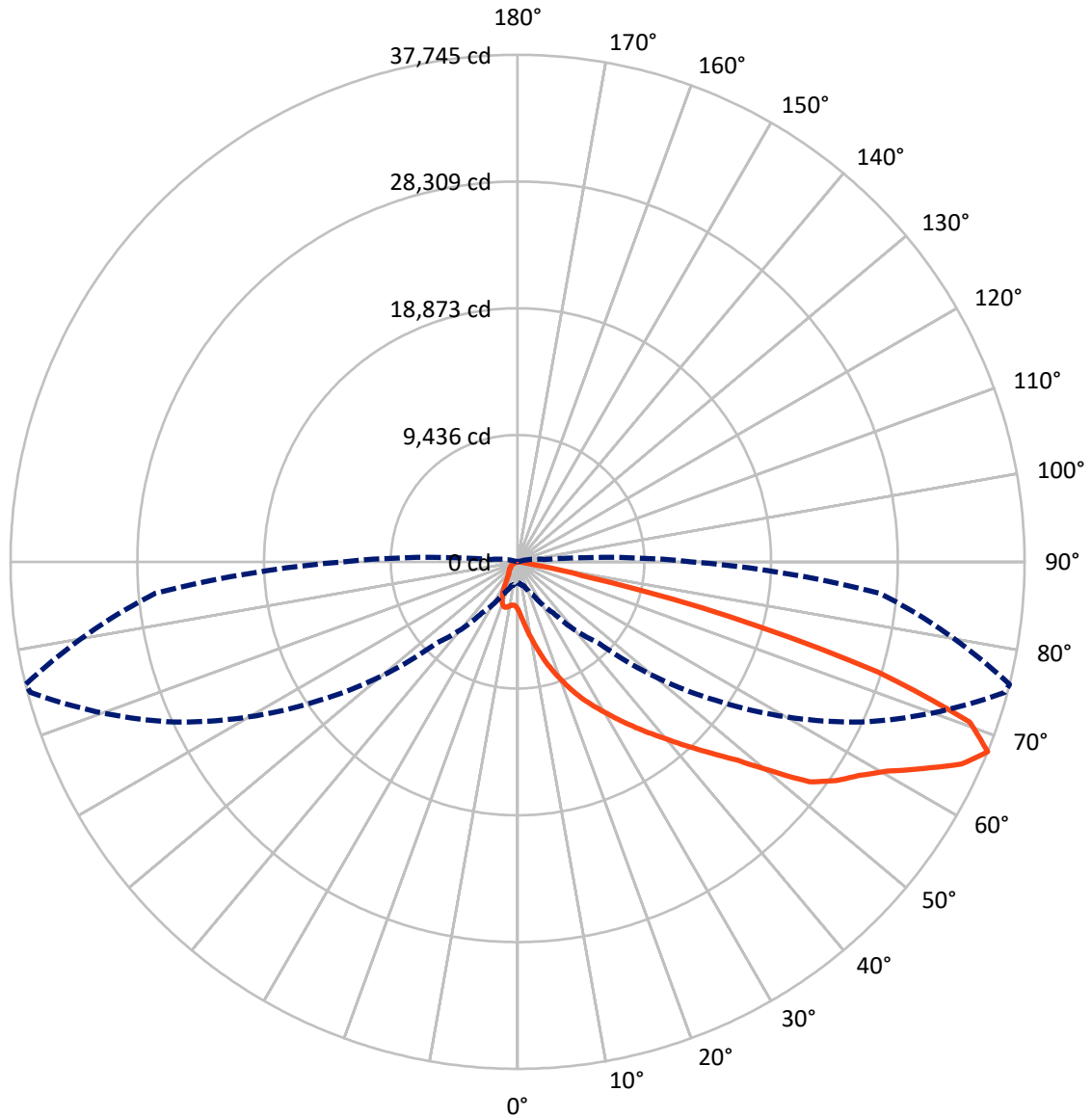
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 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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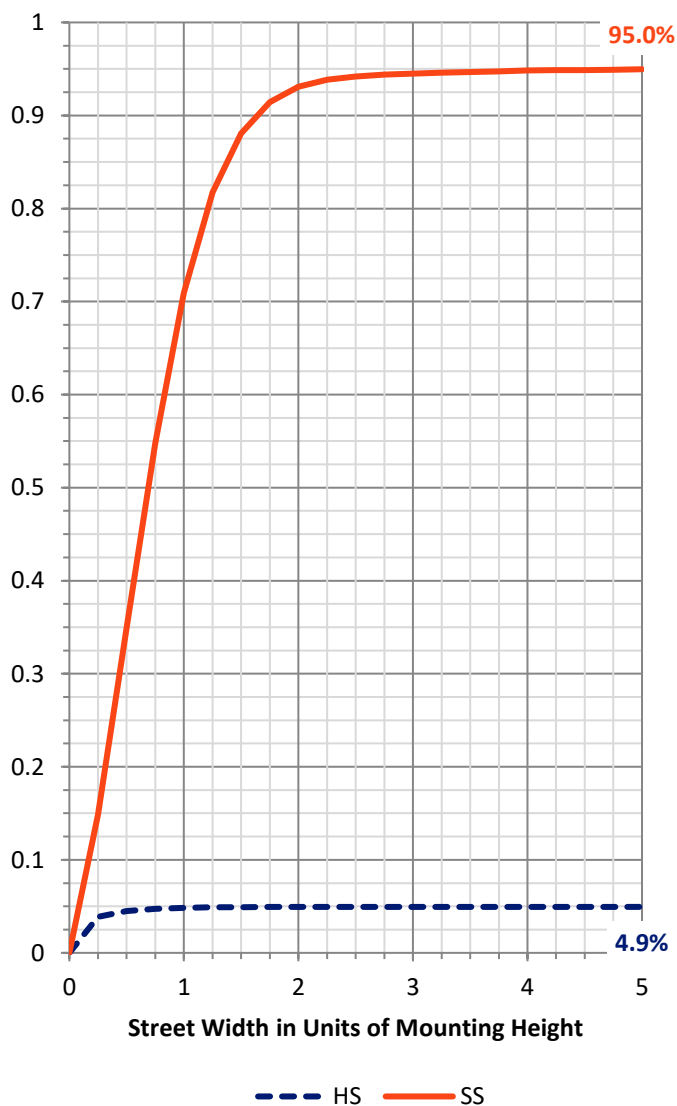
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2062.8	0.0	2062.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	39478.2	0.0	39478.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	41541.0	0.0	41541.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.2	1.1
10°-20°	1737.0	4.2
20°-30°	3534.3	8.5
30°-40°	6134.4	14.8
40°-50°	8667.1	20.9
50°-60°	9829.0	23.7
60°-70°	8152.2	19.6
70°-80°	2953.0	7.1
80°-90°	95.8	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°	41541.0	100.0
0°-180°	41541.0	100.0

Coefficient of Utilization

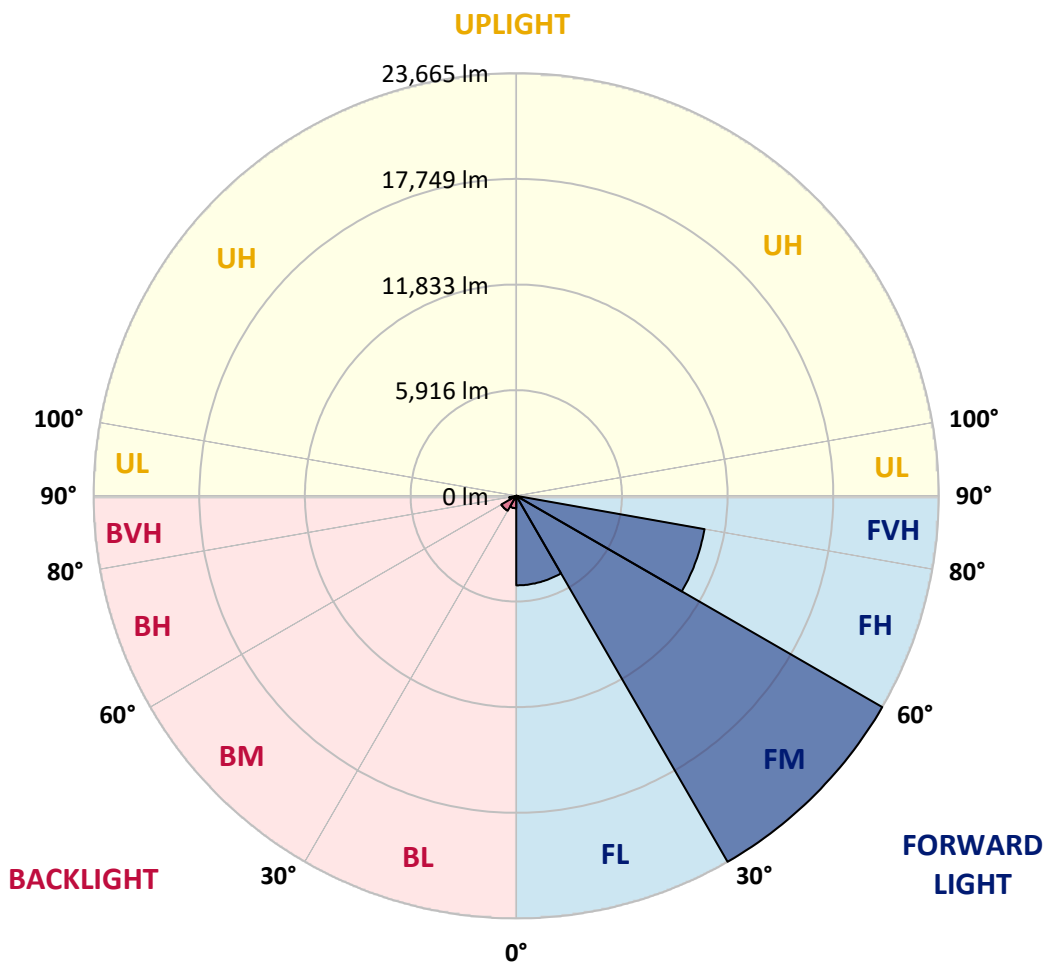


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5013.9	12.1			
FM (30°-60°)	23665.1	57.0			
FH (60°-80°)	10706.5	25.8			G4/12000
FVH (80°-90°)	92.7	0.2			G1/100
BL (0°-30°)	695.7	1.7	B2/1000		
BM (30°-60°)	965.5	2.3	B1/1000		
BH (60°-80°)	398.6	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°	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9
2.5°	5260.3	5142.0	5169.3	5092.9	4954.5	4670.6	4428.5	4199.2	3931.6	3922.5	3702.3
5°	7093.3	6993.2	6980.4	6825.7	6574.5	6092.2	5622.6	5087.4	4490.4	4446.7	3978.9
7.5°	8756.9	8676.8	8647.7	8463.9	7996.1	7526.5	6914.9	6128.6	5194.8	5114.7	4352.1
10°	10034.7	9996.5	10003.7	9872.7	9472.2	9035.4	8232.7	7229.8	5993.9	5870.1	4799.8
12.5°	11003.0	11012.1	11077.7	10997.6	10773.7	10449.7	9592.4	8403.8	6878.5	6709.2	5311.3
15°	11714.7	11760.2	11880.4	11980.5	11964.1	11683.8	10897.5	9596.0	7817.7	7630.2	5881.0
17.5°	12175.2	12226.2	12400.9	12623.0	12826.9	12761.3	12157.0	10746.4	8767.8	8551.2	6490.8
20°	12579.3	12639.4	12826.9	13119.9	13500.3	13582.2	13185.4	11862.2	9716.2	9452.2	7120.6
22.5°	13454.8	13453.0	13567.7	13738.8	14101.0	14312.1	14060.9	12897.8	10653.5	10378.7	7763.1
25°	15038.4	14978.3	14938.3	14803.6	14883.7	15014.7	14874.6	13866.2	11596.4	11317.9	8414.7
27.5°	16920.4	16956.9	16632.9	16270.6	15990.3	15855.6	15626.3	14763.5	12502.9	12197.1	9051.8
30°	18906.3	18917.2	18535.0	18072.6	17455.6	16944.1	16547.3	15620.8	13434.8	13101.7	9670.6
32.5°	20697.3	20626.3	20247.7	19618.0	18838.9	18263.7	17439.2	16578.3	14421.3	14099.2	10358.7
35°	22117.1	22033.4	21572.8	20999.5	20191.3	19612.5	18620.5	17533.9	15458.8	15143.9	11048.5
37.5°	23154.6	23056.3	22583.0	21993.3	21296.2	20959.4	19991.1	18573.2	16591.0	16252.4	11774.8
40°	23515.0	23429.4	23132.7	22701.4	22140.7	22064.3	21445.4	19769.0	17823.3	17462.9	12597.5
42.5°	23300.2	23216.5	23110.9	22965.3	22732.3	22805.1	22817.9	21132.4	19192.0	18837.1	13505.8
45°	22448.4	22373.7	22482.9	22695.9	22985.3	23345.7	24070.1	22597.6	20721.0	20342.4	14556.0
47.5°	21194.2	21139.6	21441.8	21973.3	22819.7	23813.5	25215.0	24137.5	22437.4	22086.1	15866.6
50°	19410.5	19401.4	20005.7	20975.8	22277.3	24039.2	26398.2	25888.5	24821.9	24452.4	17688.6
52.5°	16632.9	16651.1	17839.6	19392.3	21325.3	23886.3	27159.0	28138.3	27595.8	27211.8	19266.7
55°	13988.1	14097.3	14940.1	17178.9	19865.5	23318.4	27421.1	29188.5	29126.6	28762.6	20144.0
57.5°	11398.0	11596.4	12408.2	14499.6	17734.1	22009.7	27277.3	29643.5	30266.1	29987.6	21301.6
60°	8591.3	8682.3	9617.9	11572.7	14998.3	19621.6	26234.3	29891.1	31824.1	31631.2	22981.7
62.5°	5466.0	5693.5	6523.5	8409.3	11678.3	16305.2	24476.0	29887.5	33773.5	33879.1	25149.5
65°	2879.5	3145.3	3585.8	5211.2	8025.2	12601.1	21831.3	29607.1	36165.3	36312.7	26844.1
67.5°	1552.6	1629.1	1862.1	2704.8	4654.2	8536.7	17945.2	28223.8	37550.4	37745.2	27080.7
70°	1135.8	1177.7	1265.0	1496.2	2342.6	4958.2	13094.4	25087.6	35764.8	35692.0	24061.0
72.5°	871.9	937.4	1002.9	1095.8	1346.9	2646.6	8152.6	19645.3	28536.9	28056.3	17985.3
75°	688.0	699.0	791.8	875.5	1010.2	1507.1	3620.3	11441.7	17417.4	16279.7	9326.6
77.5°	549.7	557.0	611.6	684.4	811.8	990.2	1121.2	4501.3	5560.7	4961.8	2024.0
80°	325.8	344.0	455.0	527.9	673.5	624.3	409.5	977.4	868.2	786.3	340.4
82.5°	182.0	196.6	256.6	416.8	469.6	298.5	203.9	263.9	203.9	198.4	96.5
85°	0.0	9.1	165.6	258.5	191.1	65.5	85.5	87.4	60.1	56.4	38.2
87.5°	0.0	0.0	51.0	49.1	7.3	10.9	20.0	29.1	23.7	23.7	20.0
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°	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9
2.5°	3593.0	3494.8	3309.1	3127.1	2974.2	2848.6	2735.7	2690.2	2653.8	2648.4	2619.2
5°	3753.2	3554.8	3199.9	2908.7	2713.9	2575.6	2457.3	2384.4	2328.0	2306.2	2286.2
7.5°	3995.3	3695.0	3185.3	2850.4	2617.4	2384.4	2166.0	1929.4	1782.0	1725.5	1692.8
10°	4290.2	3880.6	3239.9	2834.0	2426.3	1934.9	1572.6	1272.3	1150.4	1110.3	1099.4
12.5°	4634.2	4111.8	3334.6	2732.1	2018.6	1374.2	1084.8	982.9	955.6	942.9	942.9
15°	5029.2	4364.8	3401.9	2437.2	1492.6	1039.3	939.2	891.9	862.8	846.4	848.2
17.5°	5433.3	4612.4	3369.2	2009.5	1101.2	924.7	850.0	799.1	759.0	742.6	739.0
20°	5841.0	4841.7	3187.1	1496.2	931.9	839.1	755.4	699.0	658.9	642.5	638.9
22.5°	6263.3	5036.5	2866.8	1097.6	837.3	744.5	662.5	606.1	567.9	553.3	546.1
25°	6674.6	5194.8	2419.0	888.3	748.1	655.3	577.0	524.2	489.6	475.1	473.2
27.5°	7058.7	5294.9	1900.3	784.5	669.8	575.2	504.2	456.9	427.7	416.8	415.0
30°	7404.5	5304.0	1405.2	708.1	600.7	506.0	440.5	398.6	373.1	362.2	358.6
32.5°	7754.0	5227.6	1022.9	638.9	537.0	445.9	382.2	349.5	331.3	322.2	322.2
35°	8083.4	5051.0	797.2	578.8	475.1	387.7	336.7	313.1	302.2	293.0	293.0
37.5°	8405.6	4798.0	677.1	526.0	416.8	338.6	296.7	282.1	273.0	263.9	263.9
40°	8733.3	4479.5	615.2	476.9	369.5	300.3	263.9	251.2	242.1	234.8	233.0
42.5°	9135.5	4111.8	575.2	431.4	327.6	265.7	233.0	218.4	211.1	203.9	200.2
45°	9601.5	3795.1	542.4	385.9	293.0	236.6	202.0	187.5	176.6	167.5	165.6
47.5°	10273.1	3565.7	498.7	336.7	260.3	205.7	174.7	158.4	142.0	132.9	131.1
50°	11130.4	3376.4	442.3	293.0	227.5	174.7	145.6	125.6	111.0	101.9	101.9
52.5°	11556.4	3128.9	391.3	254.8	191.1	147.4	118.3	94.6	87.4	78.3	78.3
55°	11727.5	2939.6	340.4	216.6	158.4	122.0	92.8	72.8	67.3	61.9	60.1
57.5°	12208.0	2885.0	296.7	183.8	131.1	96.5	71.0	54.6	51.0	43.7	43.7
60°	12981.6	2912.3	256.6	156.5	105.6	74.6	52.8	41.9	38.2	30.9	30.9
62.5°	13817.0	2877.7	216.6	134.7	81.9	54.6	36.4	30.9	30.9	18.2	16.4
65°	13977.2	2562.8	185.7	111.0	63.7	40.0	23.7	20.0	27.3	3.6	0.0
67.5°	12972.5	1987.6	160.2	85.5	47.3	30.9	18.2	9.1	23.7	0.0	0.0
70°	10373.2	1263.2	129.2	61.9	36.4	25.5	14.6	3.6	18.2	0.0	0.0
72.5°	7335.3	733.5	101.9	43.7	30.9	20.0	10.9	0.0	10.9	0.0	0.0
75°	3709.5	391.3	63.7	32.8	23.7	14.6	7.3	0.0	1.8	0.0	0.0
77.5°	802.7	182.0	40.0	23.7	16.4	9.1	3.6	0.0	0.0	0.0	0.0
80°	174.7	80.1	25.5	14.6	9.1	5.5	0.0	0.0	0.0	0.0	0.0
82.5°	63.7	41.9	12.7	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.6	21.8	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.2	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)