

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: P383581

Luminaire Tested: **GLEON-SA8D-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8D-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47420.4 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

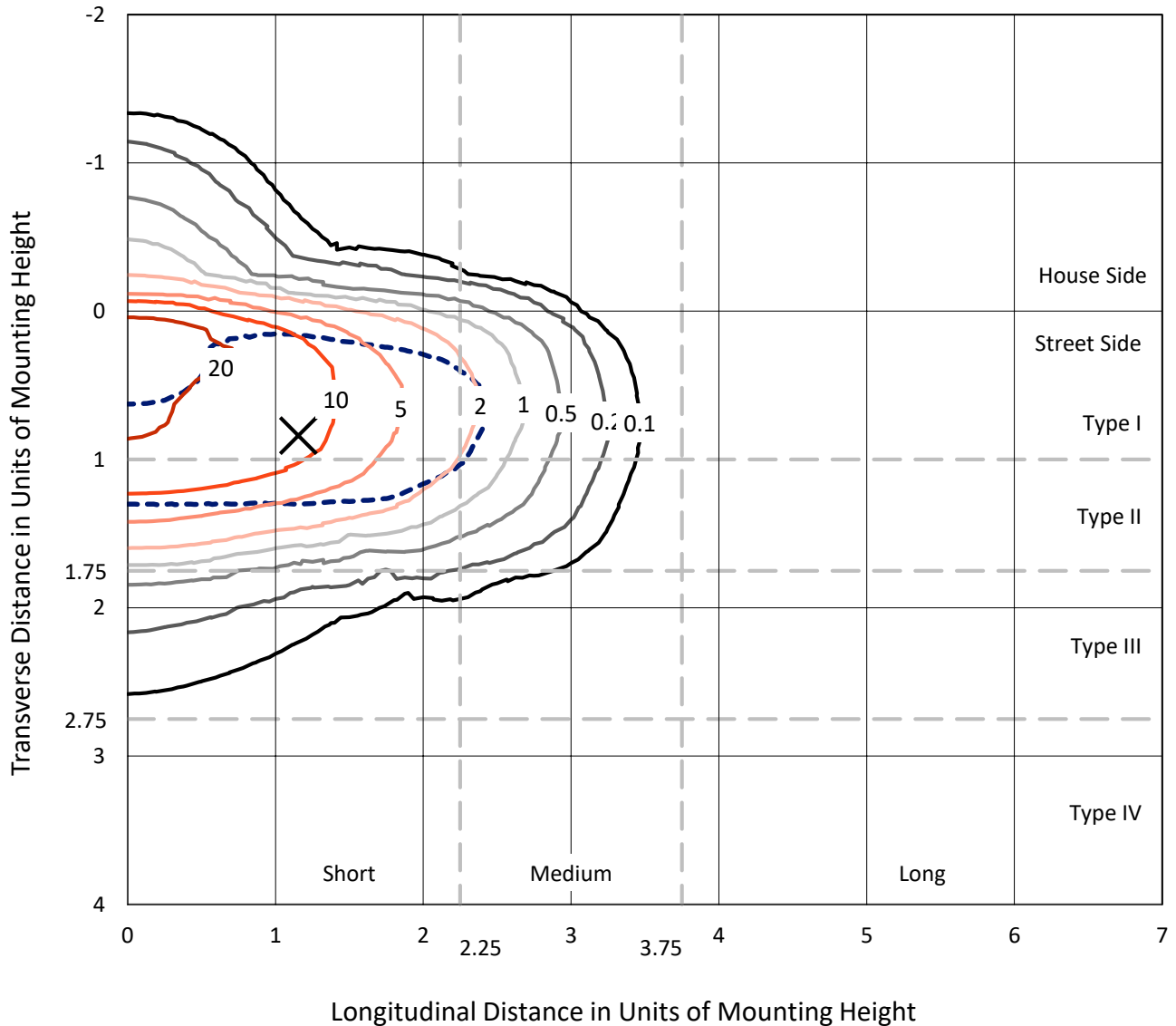
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

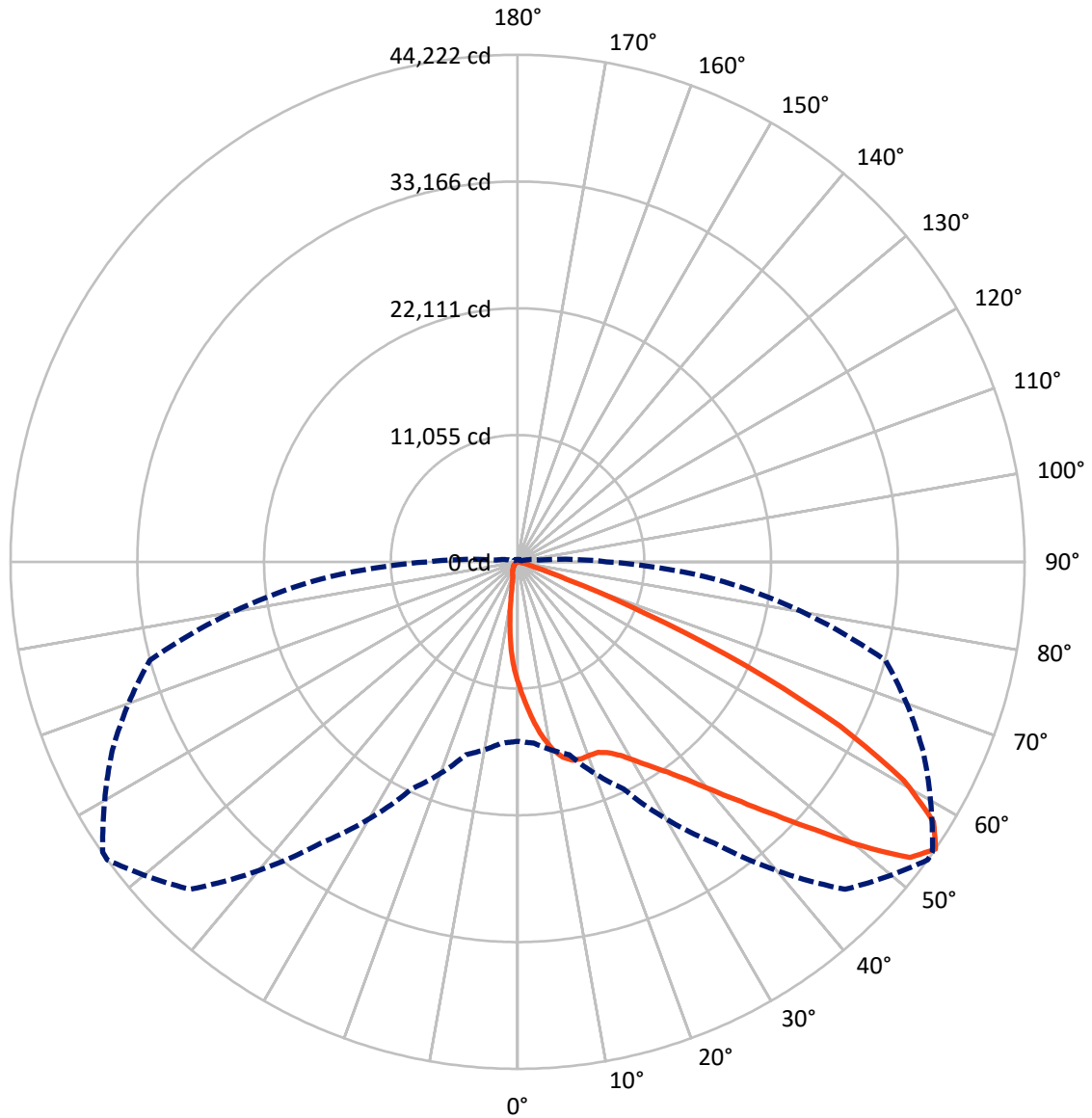
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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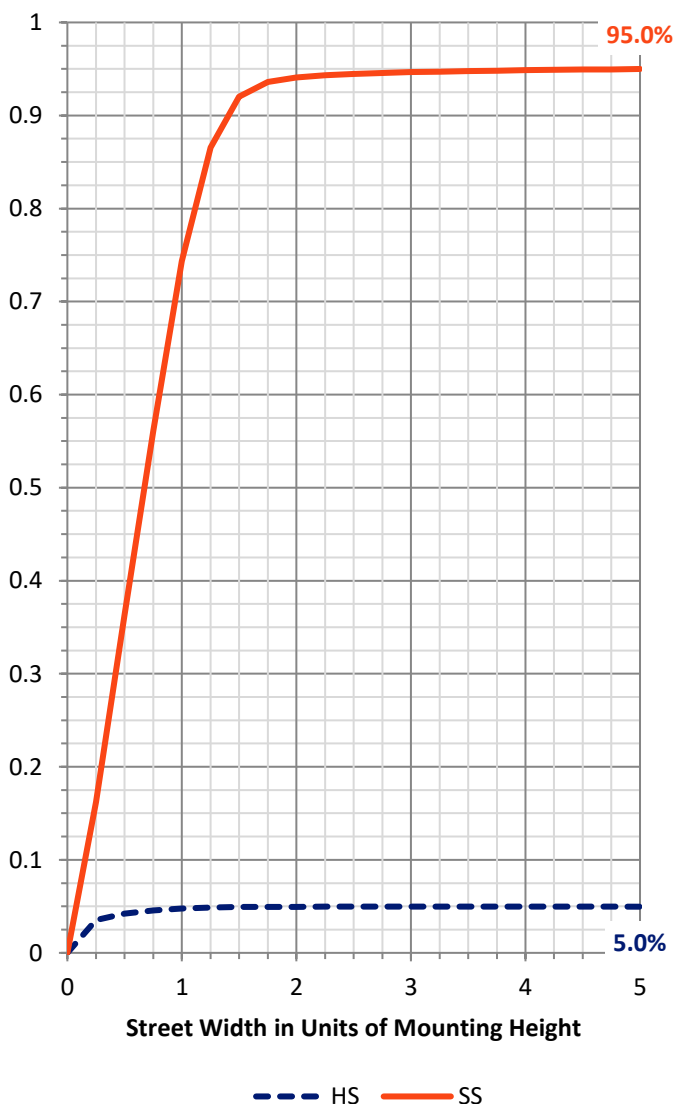
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2365.9	0.0	2365.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	45054.5	0.0	45054.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	47420.4	0.0	47420.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	978.0	2.1
10°-20°	2682.2	5.7
20°-30°	4579.4	9.7
30°-40°	7349.2	15.5
40°-50°	11744.1	24.8
50°-60°	12584.1	26.5
60°-70°	6461.0	13.6
70°-80°	978.7	2.1
80°-90°	63.7	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°	47420.4	100.0
0°-180°	47420.4	100.0

Coefficient of Utilization



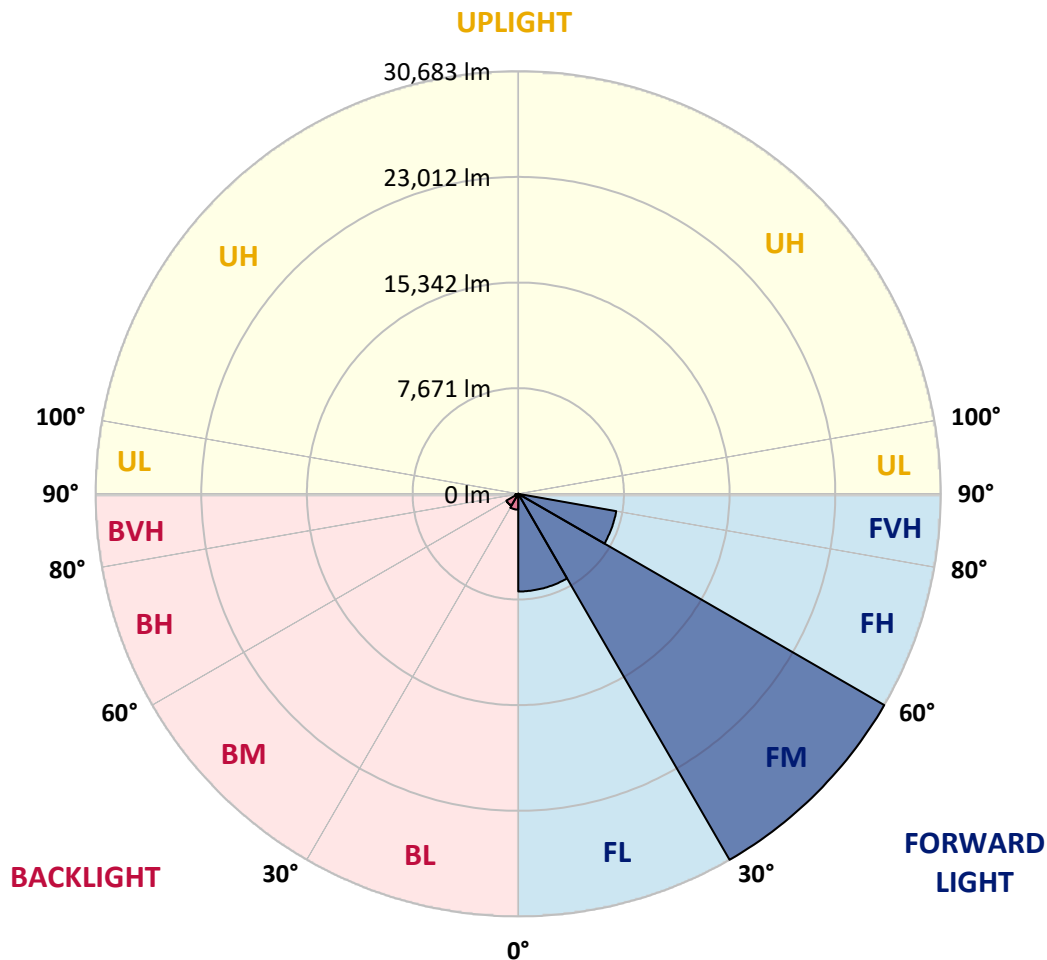
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7088.5	14.9			
FM (30°-60°)	30683.1	64.7			
FH (60°-80°)	7221.7	15.2			G3/7500
FVH (80°-90°)	61.2	0.1			G1/100
BL (0°-30°)	1151.1	2.4	B3/2500		
BM (30°-60°)	994.2	2.1	B1/1000		
BH (60°-80°)	218.0	0.5	B1/500		G1/500
BVH (80°-90°)	2.6	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10620.3	10620.3	10620.3	10620.3	10620.3	10620.3	10620.3	10620.3	10620.3	10620.3	10620.3
2.5°	13327.6	13129.0	13135.1	13044.9	12715.3	12457.2	12188.9	12125.5	11707.7	11269.5	10847.6
5°	15631.5	15486.0	15451.2	15277.1	14818.4	14333.1	13812.9	13692.1	12875.0	11978.0	11095.4
7.5°	16815.1	16817.1	16788.4	16725.0	16438.3	15967.3	15332.4	15205.5	14093.5	12748.0	11353.4
10°	16471.1	16548.8	16708.6	16919.5	17138.6	17079.3	16602.1	16487.5	15279.2	13563.1	11640.2
12.5°	15668.3	15678.5	15856.7	16202.8	16833.5	17480.7	17488.9	17449.9	16411.6	14415.0	11955.5
15°	15268.9	15307.8	15373.4	15596.6	16194.6	17230.8	17972.2	18027.4	17449.9	15320.1	12291.3
17.5°	15531.0	15586.4	15531.0	15557.7	15903.8	16835.6	18056.1	18197.4	18357.2	16215.1	12608.8
20°	16241.7	16292.9	16194.6	16086.1	16153.6	16720.9	17996.8	18187.2	19067.8	17009.6	12875.0
22.5°	17200.1	17220.6	17071.1	16892.9	16843.8	17110.0	18045.8	18242.5	19637.0	17728.5	13042.9
25°	18254.8	18273.1	18086.8	17882.0	17765.3	17873.9	18449.3	18596.8	20138.8	18414.5	13139.2
27.5°	19403.6	19420.0	19186.5	18934.6	18799.5	18803.6	19114.9	19272.5	20673.3	19196.8	13217.0
30°	20618.0	20609.8	20394.7	20044.6	19872.6	19868.5	20073.3	20233.0	21447.4	20200.2	13323.5
32.5°	21981.9	21965.5	21660.3	21226.2	21031.6	21060.3	21242.6	21334.8	22407.8	21269.2	13514.0
35°	23777.8	23730.8	23270.0	22731.4	22373.0	22362.8	22516.3	22590.1	23632.4	22563.5	13831.3
37.5°	26108.3	26065.4	25440.8	24658.4	24154.7	23966.3	24148.5	24242.7	25379.3	24224.3	14341.3
40°	28406.1	28363.0	27992.4	27275.6	26499.5	26046.9	26190.3	26290.6	27560.3	26239.4	14984.3
42.5°	29991.1	30028.0	30157.0	30216.4	29489.4	28539.2	28604.7	28709.2	29851.8	28393.8	15719.5
45°	30408.9	30488.7	31217.7	32649.3	32921.6	32180.3	31494.2	31551.6	32180.3	30548.1	16454.7
47.5°	29153.5	29301.0	30707.9	33370.1	35676.0	36200.2	34901.9	34826.2	34414.5	32290.9	16976.9
50°	26300.8	26436.0	28258.6	32196.7	36511.5	40038.0	38985.4	38762.2	36374.3	33333.2	17161.2
52.5°	22172.3	22336.2	23816.8	28502.3	34936.8	41750.0	42851.7	42665.4	37812.0	33415.2	17191.9
55°	15658.0	15856.7	17423.3	21844.7	29946.1	40388.2	44221.8	44166.5	39005.9	33198.1	17257.5
57.5°	8799.7	8943.0	10632.6	14003.4	21932.7	35178.4	42790.4	43156.9	39726.7	32821.3	17355.8
60°	3907.4	3946.2	4820.7	6971.0	12840.2	26884.5	38692.5	39311.0	39108.2	32317.5	17521.6
62.5°	2166.7	2133.9	2133.9	2897.8	5580.4	16643.0	31551.6	32573.5	36468.5	31721.5	17529.8
65°	1697.7	1667.0	1578.9	1591.2	2125.7	7386.7	21848.8	23665.2	31455.4	29974.7	16940.0
67.5°	1439.6	1413.1	1324.9	1290.2	1320.8	2436.9	12004.7	13890.8	23867.9	25434.6	14673.0
70°	1216.4	1198.0	1153.0	1109.9	1032.2	1204.1	4593.4	5875.4	14707.8	16919.5	10016.2
72.5°	978.9	970.7	987.1	950.2	856.0	802.8	1570.7	1902.5	6606.4	7550.5	4126.5
75°	843.7	839.6	847.8	810.9	704.4	559.1	798.7	872.4	1863.6	1847.2	835.5
77.5°	548.9	555.0	702.4	686.0	606.2	372.7	413.7	446.4	565.2	423.9	253.9
80°	350.2	346.1	356.3	569.3	544.8	284.7	206.8	217.1	272.4	208.9	122.9
82.5°	213.0	208.9	233.4	266.2	274.4	198.6	127.0	129.0	170.0	135.2	65.5
85°	18.4	24.6	141.3	131.1	94.2	61.5	61.5	65.5	90.1	79.8	36.9
87.5°	0.0	0.0	24.6	36.9	20.5	22.5	22.5	24.6	34.8	34.8	18.4
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°	10620.3	10620.3	10620.3	10620.3	10620.3	10620.3	10620.3	10620.3	10620.3	10620.3	10620.3
2.5°	10628.5	10415.4	9985.4	9571.7	9221.6	8883.7	8498.7	8117.8	7939.6	7867.9	7794.2
5°	10646.9	10208.6	9321.9	8429.0	7503.4	6669.9	5959.3	5230.3	4865.8	4706.0	4632.3
7.5°	10671.4	10003.9	8570.3	7071.3	5580.4	4450.0	3462.9	2828.1	2553.7	2510.7	2404.2
10°	10675.5	9756.1	7697.9	5572.2	3741.5	2682.7	2064.2	1736.6	1615.8	1595.3	1560.4
12.5°	10683.7	9463.2	6729.3	4126.5	2494.3	1794.0	1492.9	1384.4	1351.6	1349.5	1349.5
15°	10708.3	9156.1	5723.8	2973.5	1791.9	1421.3	1310.6	1267.6	1255.4	1261.5	1259.5
17.5°	10708.3	8793.5	4736.7	2215.8	1447.8	1277.9	1216.4	1187.7	1183.7	1189.8	1191.8
20°	10630.5	8353.3	3831.5	1724.3	1284.0	1185.7	1130.4	1103.8	1093.5	1097.6	1099.7
22.5°	10444.1	7812.6	3094.3	1427.4	1175.5	1101.7	1042.4	1001.4	985.0	987.1	987.1
25°	10153.4	7171.6	2420.6	1234.9	1087.4	1011.7	942.0	894.9	884.7	882.6	886.7
27.5°	9780.7	6463.1	1927.1	1087.4	983.0	911.3	841.7	802.8	794.6	796.7	798.7
30°	9414.0	5727.9	1519.5	962.5	866.2	798.7	745.4	727.0	727.0	733.1	735.2
32.5°	9078.2	5021.4	1202.1	853.9	761.8	700.3	669.7	667.6	677.9	682.0	684.0
35°	8789.4	4368.1	995.3	770.0	679.9	626.7	616.4	624.6	636.9	645.1	647.1
37.5°	8584.7	3784.5	870.3	700.3	616.4	573.4	571.3	587.7	604.1	622.6	626.7
40°	8498.7	3291.0	784.4	638.9	565.2	532.5	526.3	548.9	579.5	606.2	610.3
42.5°	8427.0	2887.5	710.6	579.5	524.3	477.1	475.1	503.8	540.7	567.2	573.4
45°	8365.6	2563.9	643.0	516.1	471.0	409.6	415.7	452.5	481.2	509.9	516.1
47.5°	8238.6	2297.8	569.3	448.4	389.1	350.2	362.5	395.3	417.8	460.7	466.9
50°	8011.3	2080.6	493.5	366.6	317.4	303.1	321.5	344.0	372.7	409.6	413.7
52.5°	7857.7	1916.8	428.0	307.2	262.1	266.2	284.7	292.9	309.3	323.5	319.4
55°	7769.7	1826.7	374.8	266.2	223.2	235.5	239.6	229.3	221.1	206.8	200.7
57.5°	7759.4	1744.8	333.8	231.4	196.6	202.7	188.4	153.6	124.9	108.5	104.4
60°	7743.0	1644.5	301.1	194.5	174.1	165.9	135.2	83.9	59.4	55.3	55.3
62.5°	7564.8	1488.8	276.5	163.9	147.5	124.9	77.8	38.9	32.8	34.8	34.8
65°	6997.6	1271.7	251.9	133.1	116.7	90.1	38.9	22.5	12.3	14.3	14.3
67.5°	5949.0	1013.7	225.2	102.4	88.0	57.4	22.5	10.2	0.0	0.0	0.0
70°	3983.1	628.7	190.4	71.6	57.4	34.8	16.4	2.0	0.0	0.0	0.0
72.5°	1527.7	339.9	153.6	43.0	36.9	24.6	10.2	0.0	0.0	0.0	0.0
75°	344.0	223.2	106.5	30.7	26.6	16.4	4.1	0.0	0.0	0.0	0.0
77.5°	131.1	161.8	61.5	20.5	18.4	10.2	0.0	0.0	0.0	0.0	0.0
80°	63.4	96.2	28.7	12.3	10.2	4.1	0.0	0.0	0.0	0.0	0.0
82.5°	32.8	36.9	12.3	6.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.4	18.4	6.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	6.1	2.0	2.0	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)