

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: P383301

Luminaire Tested: **GLEON-SA6B-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383301
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-SA6B-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA 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: 26064.7 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 249
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

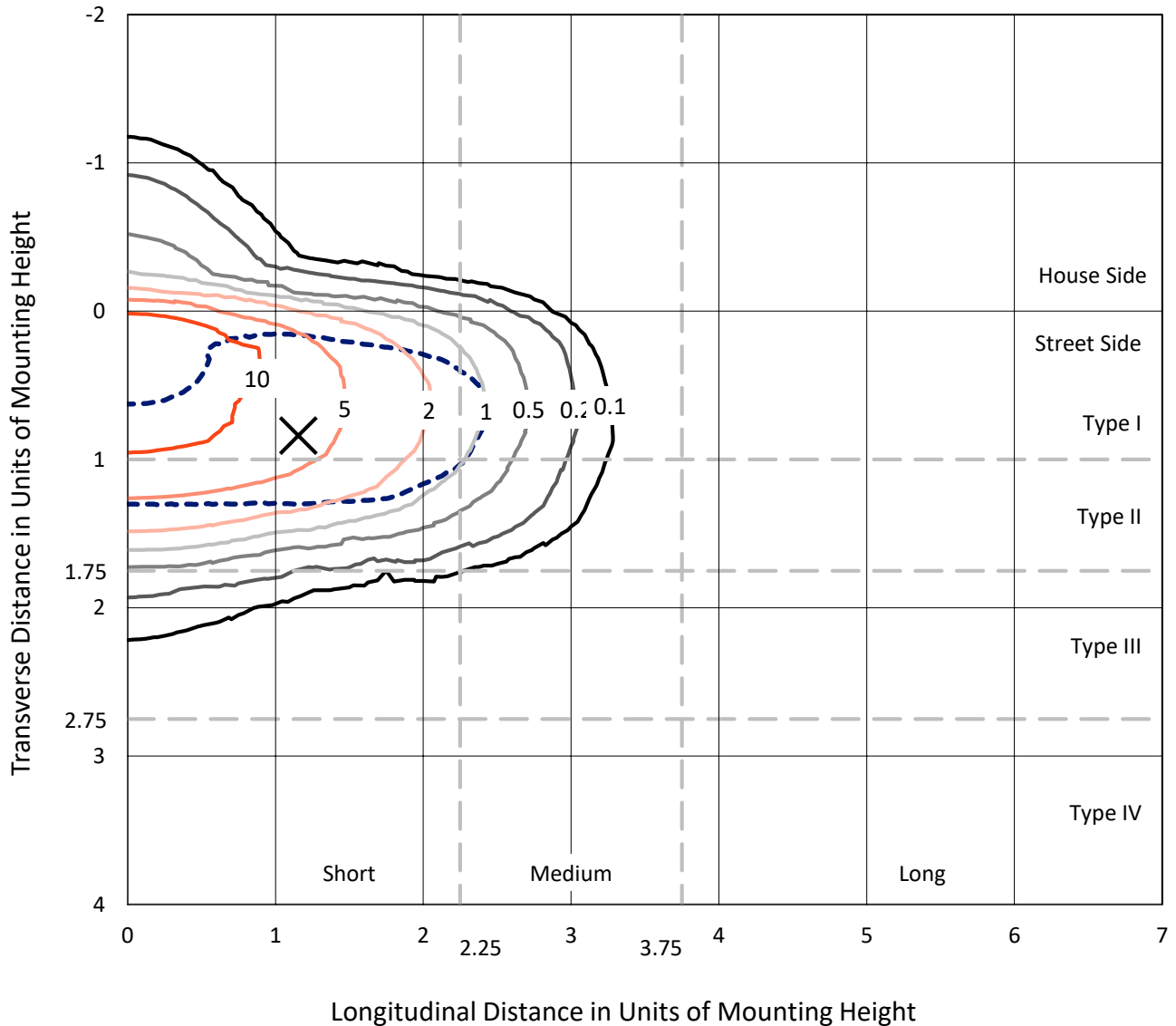




REPORT NUMBER: P383301
 CATALOG NUMBER: GLEON-SA6B-735-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

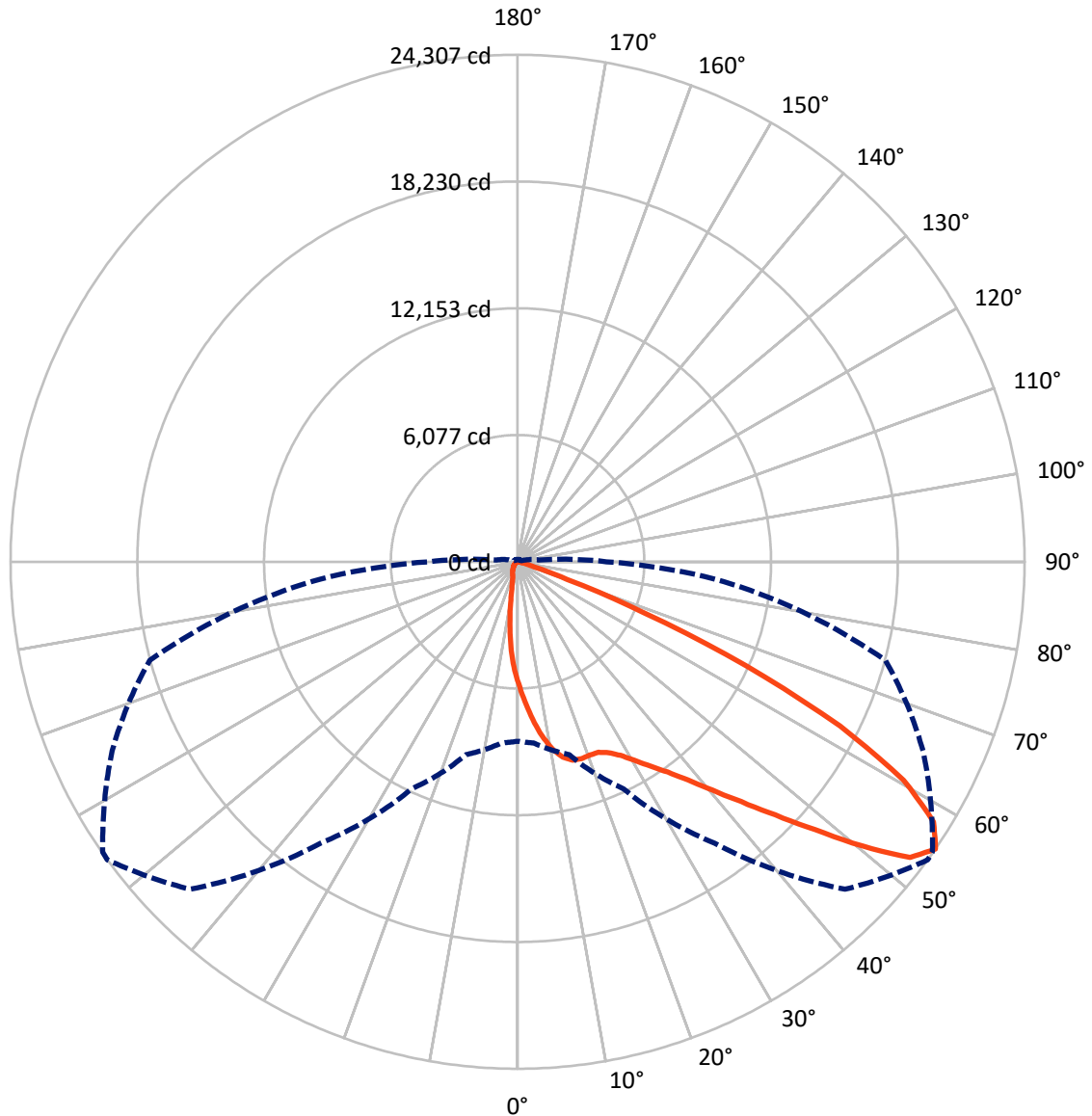
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - N/A

REPORT NUMBER: P383301
CATALOG NUMBER: GLEON-SA6B-735-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P383301
 CATALOG NUMBER: GLEON-SA6B-735-U-AFL-HSS

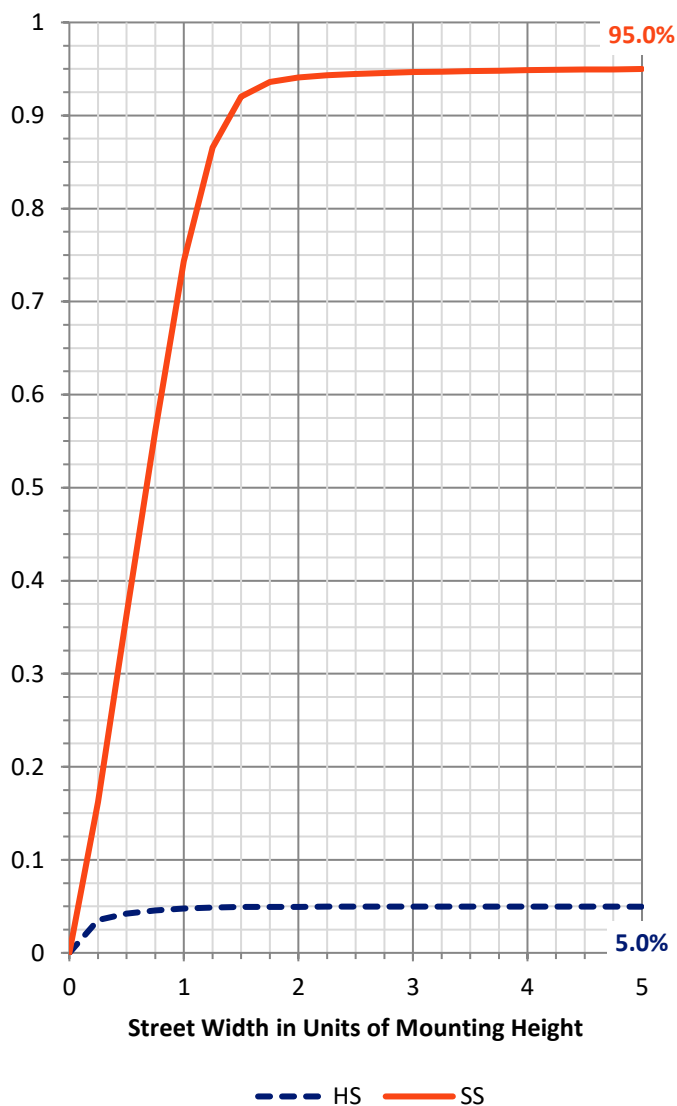
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1300.4	0.0	1300.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	24764.3	0.0	24764.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	26064.7	0.0	26064.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.6	2.1
10°-20°	1474.3	5.7
20°-30°	2517.1	9.7
30°-40°	4039.5	15.5
40°-50°	6455.1	24.8
50°-60°	6916.9	26.5
60°-70°	3551.3	13.6
70°-80°	537.9	2.1
80°-90°	35.0	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°	26064.7	100.0
0°-180°	26064.7	100.0

Coefficient of Utilization



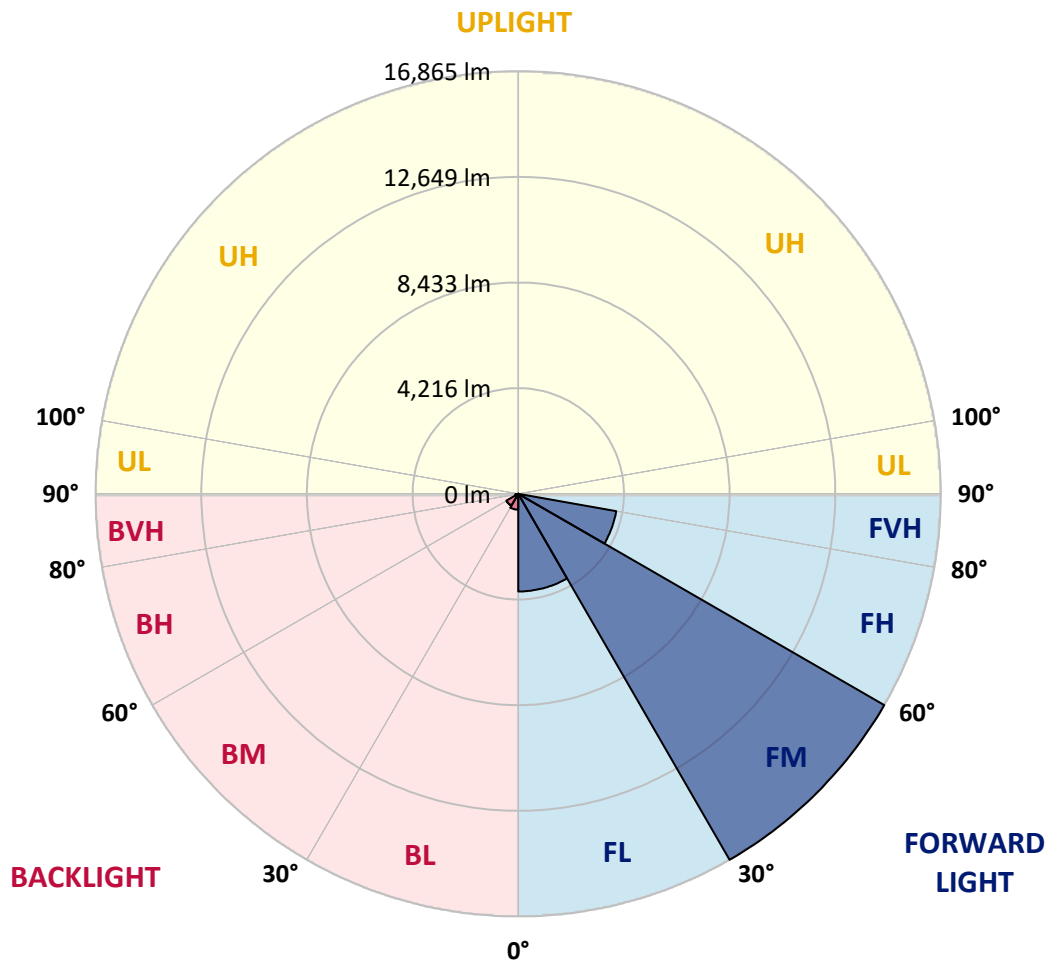
REPORT NUMBER: P383301
 CATALOG NUMBER: GLEON-SA6B-735-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3896.2	14.9			
FM (30°-60°)	16865.0	64.7			
FH (60°-80°)	3969.4	15.2			G2/5000
FVH (80°-90°)	33.6	0.1			G1/100
BL (0°-30°)	632.7	2.4	B2/1000		
BM (30°-60°)	546.5	2.1	B1/1000		
BH (60°-80°)	119.8	0.5	B1/500		G1/500
BVH (80°-90°)	1.4	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-G2

Type II Short





REPORT NUMBER: P383301

CATALOG NUMBER: GLEON-SA6B-735-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4
2.5°	7325.5	7216.3	7219.7	7170.2	6988.9	6847.2	6699.7	6664.8	6435.1	6194.2	5962.4
5°	8591.8	8511.9	8492.7	8397.1	8145.0	7878.2	7592.3	7525.9	7076.8	6583.7	6098.6
7.5°	9242.4	9243.6	9227.8	9192.9	9035.4	8776.4	8427.5	8357.7	7746.5	7007.0	6240.4
10°	9053.3	9096.1	9183.9	9299.8	9420.3	9387.7	9125.3	9062.4	8398.2	7455.0	6398.0
12.5°	8612.1	8617.7	8715.7	8905.9	9252.6	9608.3	9612.7	9591.4	9020.7	7923.2	6571.3
15°	8392.6	8414.0	8450.0	8572.7	8901.4	9471.0	9878.4	9908.8	9591.4	8420.7	6756.0
17.5°	8536.7	8567.1	8536.7	8551.3	8741.5	9253.7	9924.5	10002.2	10090.1	8912.7	6930.4
20°	8927.3	8955.4	8901.4	8841.7	8878.9	9190.6	9891.9	9996.6	10480.7	9349.4	7076.8
22.5°	9454.1	9465.3	9383.1	9285.2	9258.2	9404.5	9918.9	10027.0	10793.6	9744.5	7169.1
25°	10033.7	10043.9	9941.5	9828.9	9764.8	9824.4	10140.6	10221.7	11069.3	10121.5	7221.9
27.5°	10665.2	10674.2	10545.9	10407.4	10333.2	10335.4	10506.5	10593.2	11363.1	10551.5	7264.8
30°	11332.7	11328.2	11210.1	11017.5	10923.0	10920.7	11033.2	11121.1	11788.5	11103.1	7323.3
32.5°	12082.4	12073.3	11905.6	11667.0	11560.0	11575.9	11676.0	11726.7	12316.5	11690.6	7428.0
35°	13069.5	13043.6	12790.3	12494.4	12297.4	12291.8	12376.2	12416.7	12989.6	12402.1	7602.5
37.5°	14350.5	14326.8	13983.6	13553.6	13276.6	13173.1	13273.2	13325.0	13949.7	13314.9	7882.7
40°	15613.4	15589.8	15386.1	14992.0	14565.5	14316.7	14395.5	14450.6	15148.5	14422.5	8236.1
42.5°	16484.7	16504.9	16575.9	16608.5	16208.8	15686.6	15722.6	15780.0	16408.1	15606.7	8640.2
45°	16714.3	16758.2	17158.9	17945.7	18095.4	17687.9	17310.9	17342.3	17687.9	16790.9	9044.3
47.5°	16024.3	16105.3	16878.6	18341.9	19609.4	19897.5	19183.9	19142.3	18916.0	17748.7	9331.4
50°	14456.3	14530.6	15532.3	17697.0	20068.6	22007.0	21428.4	21305.7	19993.2	18321.7	9432.7
52.5°	12187.1	12277.1	13090.9	15666.3	19203.0	22947.9	23553.5	23451.1	20783.4	18366.7	9449.5
55°	8606.5	8715.7	9576.8	12007.0	16459.9	22199.4	24306.6	24276.1	21439.7	18247.3	9485.6
57.5°	4836.8	4915.6	5844.2	7697.0	12055.3	19335.9	23519.7	23721.2	21835.8	18040.3	9539.6
60°	2147.7	2169.1	2649.7	3831.6	7057.6	14777.1	21267.4	21607.3	21495.9	17763.3	9630.8
62.5°	1190.9	1172.9	1172.9	1592.8	3067.3	9147.9	17342.3	17904.1	20044.9	17435.8	9635.3
65°	933.1	916.3	867.8	874.6	1168.3	4060.1	12009.2	13007.7	17289.4	16475.6	9311.1
67.5°	791.3	776.6	728.3	709.1	726.0	1339.5	6598.3	7635.1	13119.1	13980.2	8065.1
70°	668.6	658.5	633.7	610.1	567.3	661.9	2524.8	3229.4	8084.2	9299.8	5505.4
72.5°	538.1	533.5	542.5	522.3	470.5	441.3	863.4	1045.7	3631.3	4150.1	2268.1
75°	463.7	461.5	466.0	445.7	387.2	307.3	438.9	479.5	1024.3	1015.3	459.3
77.5°	301.6	305.1	386.1	377.1	333.2	204.8	227.4	245.4	310.7	233.0	139.5
80°	192.5	190.2	195.8	312.9	299.4	156.5	113.6	119.3	149.7	114.8	67.5
82.5°	117.1	114.8	128.3	146.3	150.8	109.2	69.8	70.9	93.4	74.2	36.1
85°	10.2	13.5	77.7	72.0	51.8	33.7	33.7	36.1	49.6	43.9	20.2
87.5°	0.0	0.0	13.5	20.2	11.3	12.4	12.4	13.5	19.1	19.1	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P383301

CATALOG NUMBER: GLEON-SA6B-735-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4
2.5°	5841.9	5724.9	5488.5	5261.1	5068.6	4882.9	4671.3	4461.9	4364.0	4324.6	4284.1
5°	5852.1	5611.2	5123.8	4633.1	4124.2	3666.1	3275.5	2874.8	2674.5	2586.6	2546.1
7.5°	5865.6	5498.6	4710.7	3886.8	3067.3	2446.0	1903.4	1554.5	1403.7	1380.0	1321.5
10°	5867.8	5362.5	4231.2	3062.8	2056.5	1474.5	1134.6	954.6	888.1	876.9	857.7
12.5°	5872.4	5201.5	3698.8	2268.1	1371.0	986.0	820.6	760.9	742.9	741.8	741.8
15°	5885.9	5032.6	3146.1	1634.4	984.9	781.2	720.4	696.8	690.0	693.4	692.2
17.5°	5885.9	4833.4	2603.6	1217.9	795.8	702.4	668.6	652.8	650.6	653.9	655.1
20°	5843.0	4591.4	2106.0	947.8	705.7	651.7	621.3	606.7	601.0	603.4	604.5
22.5°	5740.7	4294.2	1700.8	784.5	646.1	605.6	572.9	550.5	541.4	542.5	542.5
25°	5580.8	3941.9	1330.4	678.7	597.7	556.0	517.8	491.9	486.3	485.1	487.4
27.5°	5376.0	3552.5	1059.2	597.7	540.3	500.9	462.6	441.3	436.7	437.8	438.9
30°	5174.5	3148.4	835.2	529.0	476.1	438.9	409.7	399.6	399.6	403.0	404.1
32.5°	4989.8	2760.0	660.7	469.4	418.7	384.9	368.1	366.9	372.6	374.9	376.0
35°	4831.2	2401.0	547.0	423.2	373.7	344.4	338.8	343.3	350.1	354.5	355.7
37.5°	4718.6	2080.1	478.3	384.9	338.8	315.1	314.0	323.1	332.1	342.2	344.4
40°	4671.3	1808.9	431.1	351.2	310.7	292.7	289.2	301.6	318.6	333.2	335.5
42.5°	4631.9	1587.1	390.6	318.6	288.1	262.2	261.1	276.9	297.2	311.8	315.1
45°	4598.1	1409.2	353.4	283.7	258.9	225.2	228.5	248.7	264.6	280.3	283.7
47.5°	4528.3	1262.9	312.9	246.5	213.9	192.5	199.3	217.2	229.6	253.3	256.6
50°	4403.4	1143.7	271.3	201.5	174.5	166.6	176.7	189.1	204.8	225.2	227.4
52.5°	4319.0	1053.6	235.2	168.8	144.1	146.3	156.5	161.0	170.0	177.8	175.6
55°	4270.6	1004.0	206.0	146.3	122.7	129.5	131.7	126.0	121.6	113.6	110.3
57.5°	4265.0	959.0	183.5	127.2	108.1	111.4	103.6	84.4	68.7	59.6	57.4
60°	4256.0	903.9	165.4	106.9	95.7	91.2	74.2	46.1	32.6	30.4	30.4
62.5°	4158.1	818.4	151.9	90.1	81.0	68.7	42.8	21.4	18.0	19.1	19.1
65°	3846.3	699.0	138.4	73.1	64.2	49.6	21.4	12.4	6.7	7.9	7.9
67.5°	3269.9	557.2	123.8	56.3	48.4	31.5	12.4	5.6	0.0	0.0	0.0
70°	2189.3	345.6	104.7	39.4	31.5	19.1	9.0	1.1	0.0	0.0	0.0
72.5°	839.7	186.9	84.4	23.7	20.2	13.5	5.6	0.0	0.0	0.0	0.0
75°	189.1	122.7	58.5	16.9	14.6	9.0	2.2	0.0	0.0	0.0	0.0
77.5°	72.0	89.0	33.7	11.3	10.2	5.6	0.0	0.0	0.0	0.0	0.0
80°	34.9	52.9	15.7	6.7	5.6	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	18.0	20.2	6.7	3.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.2	10.2	3.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	3.4	1.1	1.1	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)