

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: P383202

Luminaire Tested: **GLEON-SA5B-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5B-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18928.1 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

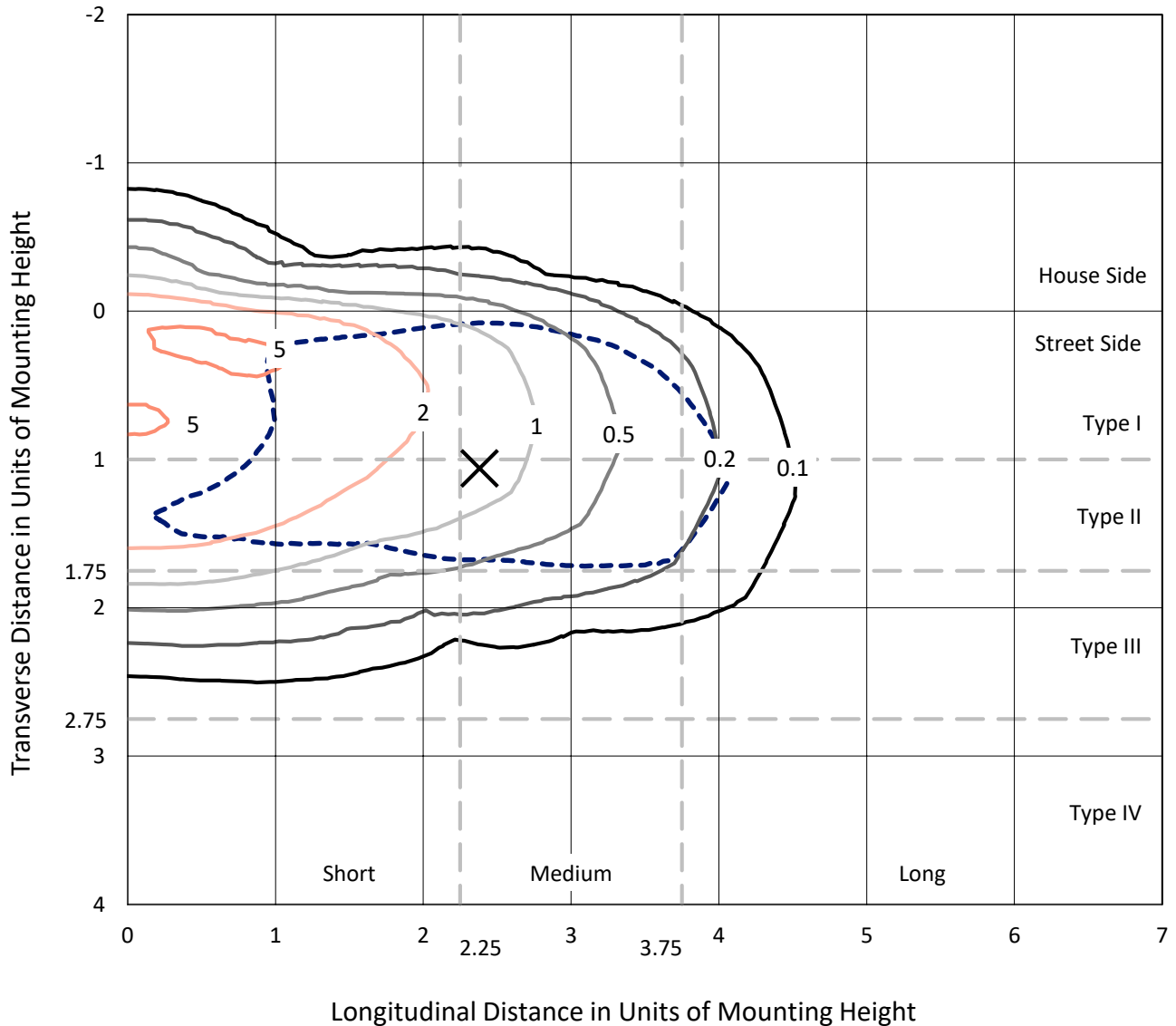
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

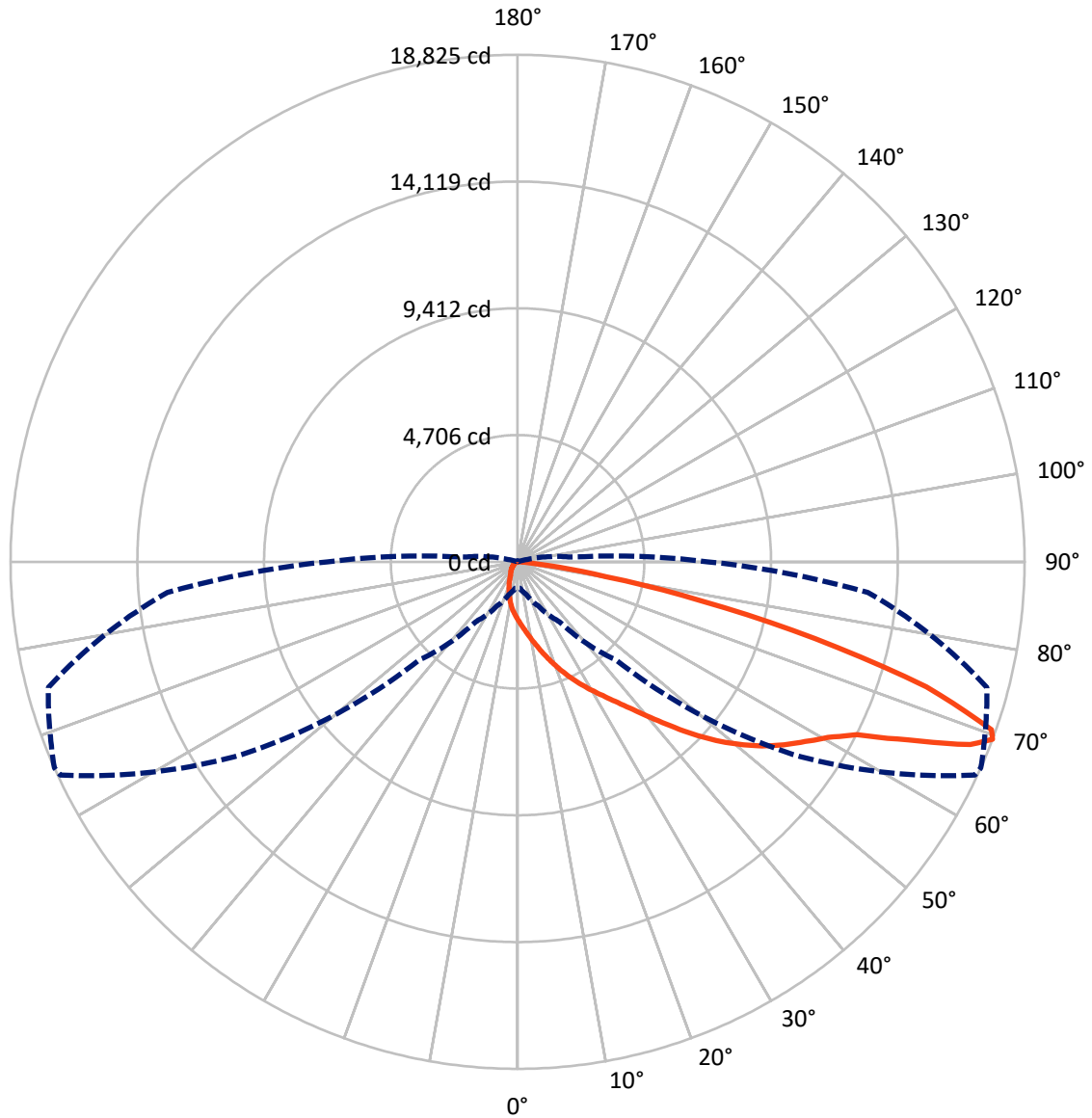
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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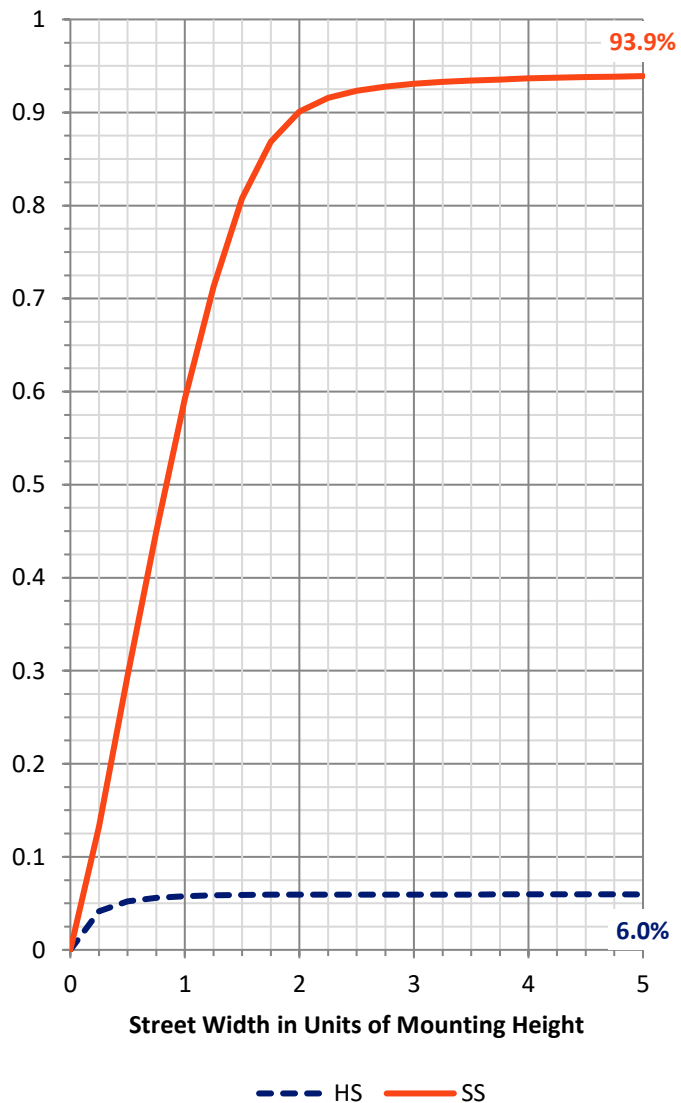
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1135.4	0.0	1135.4
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	17792.7	0.0	17792.7
	% Fixture	94.0	0.0	94.0
Total	Lumens	18928.1	0.0	18928.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.2	1.1
10°-20°	619.7	3.3
20°-30°	1079.1	5.7
30°-40°	1893.3	10.0
40°-50°	3169.1	16.7
50°-60°	4658.3	24.6
60°-70°	4782.9	25.3
70°-80°	2361.2	12.5
80°-90°	156.1	0.8
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°	18928.1	100.0
0°-180°	18928.1	100.0

Coefficient of Utilization

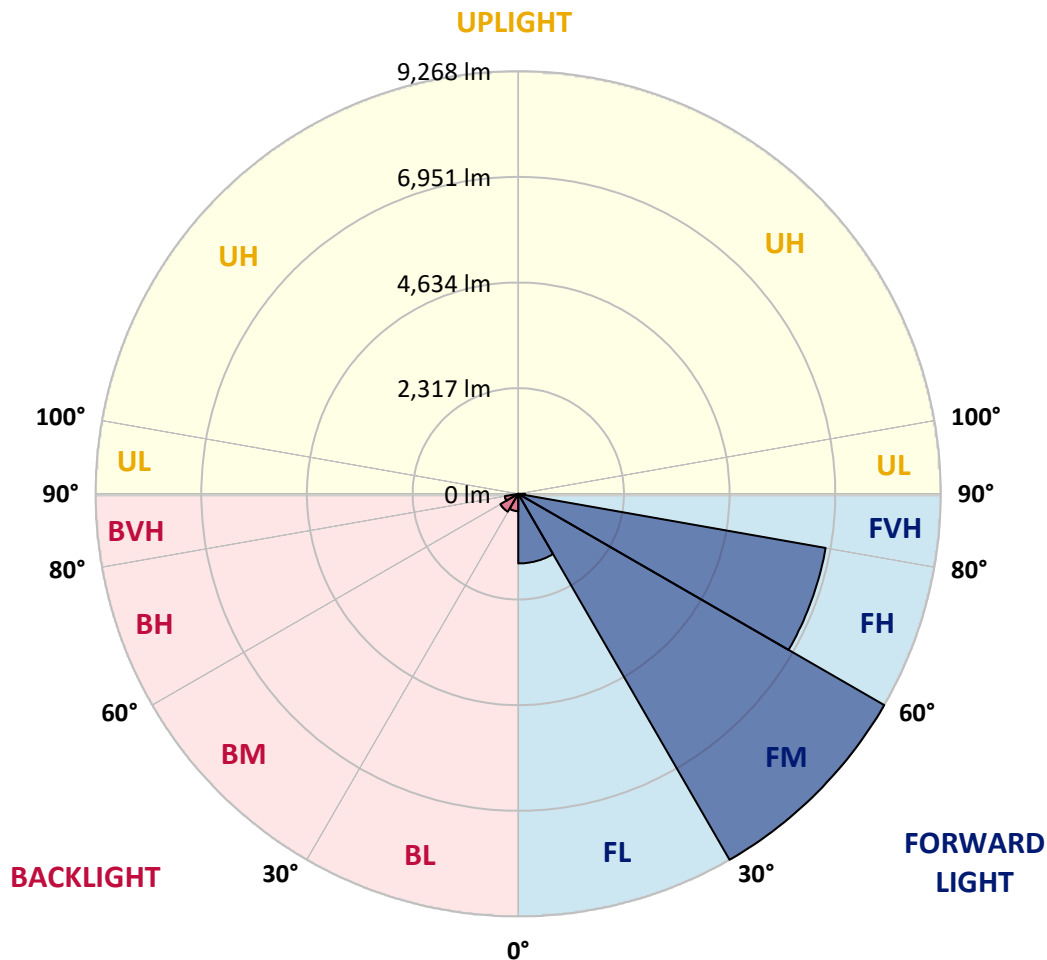


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1527.3	8.1			
FM (30°-60°)	9268.1	49.0			
FH (60°-80°)	6844.9	36.2			G3/7500
FVH (80°-90°)	152.3	0.8			G2/225
BL (0°-30°)	379.7	2.0	B1/500		
BM (30°-60°)	452.7	2.4	B1/1000		
BH (60°-80°)	299.2	1.6	B1/500		G1/500
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1
2.5°	2535.3	2524.5	2520.0	2500.2	2466.1	2440.0	2389.6	2331.2	2320.4	2263.8	2194.5
5°	2864.3	2855.3	2849.0	2821.2	2786.1	2720.5	2628.7	2520.0	2499.3	2391.5	2252.9
7.5°	3093.6	3109.8	3109.8	3091.8	3047.7	2998.3	2885.9	2737.5	2711.5	2546.0	2331.2
10°	3227.5	3247.3	3262.6	3277.8	3271.6	3251.8	3145.7	2978.5	2947.0	2727.7	2422.0
12.5°	3240.1	3259.9	3303.1	3366.9	3428.9	3473.8	3407.3	3245.5	3209.6	2938.0	2529.9
15°	3170.0	3190.6	3257.2	3381.2	3531.4	3662.7	3684.3	3541.3	3504.4	3188.9	2664.7
17.5°	3047.7	3061.2	3156.5	3328.2	3563.7	3804.7	3935.0	3858.7	3824.5	3475.7	2814.9
20°	2956.9	2966.8	3050.4	3234.7	3544.0	3893.7	4172.4	4195.8	4159.8	3783.1	2977.6
22.5°	3112.5	3130.5	3133.2	3220.4	3490.0	3937.7	4381.0	4527.5	4500.6	4109.4	3137.6
25°	3537.6	3558.3	3490.0	3436.1	3535.9	3957.5	4559.9	4867.3	4845.8	4461.0	3298.5
27.5°	4099.6	4121.2	4033.0	3872.2	3775.9	4032.2	4719.0	5212.6	5211.7	4833.2	3472.1
30°	4651.6	4673.2	4583.3	4422.3	4201.2	4243.4	4856.5	5574.0	5579.4	5217.0	3656.3
32.5°	5230.5	5257.6	5165.0	4958.2	4727.1	4608.5	5049.8	5937.2	5967.8	5662.1	3864.1
35°	5888.7	5892.2	5761.9	5545.2	5279.1	5096.6	5360.0	6344.5	6417.2	6213.2	4127.5
37.5°	6534.2	6560.2	6453.3	6111.6	5867.1	5660.3	5821.2	6853.3	6956.7	6886.6	4471.8
40°	7012.4	7067.3	7052.0	6683.4	6451.4	6304.0	6394.0	7458.3	7589.6	7670.5	4906.0
42.5°	7312.7	7354.1	7424.2	7202.2	6991.7	7016.0	7070.0	8163.2	8325.1	8564.2	5405.0
45°	7657.0	7676.8	7735.3	7637.3	7495.2	7739.8	7787.5	8957.0	9126.9	9525.3	5958.7
47.5°	8077.8	8124.6	8140.7	8050.8	7986.1	8379.8	8478.8	9679.0	9917.3	10554.6	6545.0
50°	8613.6	8626.2	8654.1	8595.7	8530.9	8930.1	9099.1	10436.9	10653.6	11587.6	7123.0
52.5°	9137.7	9182.7	9279.8	9242.9	9216.9	9398.5	9652.0	11120.2	11362.0	12448.9	7700.2
55°	9288.8	9327.5	9662.8	9892.0	10104.2	9975.7	10180.6	11732.4	11994.0	13218.5	8255.8
57.5°	8685.6	8763.7	9344.5	9941.5	10821.6	10872.9	10907.0	12360.8	12595.5	13808.2	8833.9
60°	7160.8	7176.1	8129.1	9153.0	10703.0	11656.0	11967.9	13036.0	13232.8	14357.6	9526.1
62.5°	4554.5	4710.0	5755.6	7201.2	9447.9	11542.7	13250.8	14057.2	14129.2	15016.5	10518.7
65°	2169.4	2270.1	3023.4	4449.4	6843.4	10092.6	14136.4	15904.8	15937.1	16322.9	11844.7
67.5°	1201.1	1249.7	1608.4	2395.0	4000.7	7137.4	13778.5	18093.0	18123.5	17657.0	13008.1
69°	939.5	980.8	1263.2	1805.2	2712.4	5129.8	12468.7	18734.0	18824.8	18039.0	13049.5
70°	797.4	837.9	1087.9	1524.8	2181.0	3963.8	11098.6	18574.9	18671.1	18003.1	12741.1
72.5°	488.1	511.5	724.7	1073.4	1461.8	1994.1	6844.4	15708.8	15871.5	16514.3	10950.2
75°	329.0	341.6	453.1	740.8	1045.6	1026.7	3555.7	11072.5	11424.9	12846.2	8087.7
77.5°	235.6	247.2	303.9	479.2	732.8	677.9	1610.2	6881.2	6956.7	7704.7	4410.7
80°	134.0	144.8	214.9	285.0	497.2	452.2	640.1	3286.9	3324.6	3303.9	1472.6
82.5°	70.1	79.1	117.7	187.9	319.1	295.8	266.1	1100.4	1105.8	919.7	322.8
85°	13.5	16.2	58.4	128.6	164.5	128.6	108.8	258.0	263.4	232.9	80.0
87.5°	0.0	0.9	23.4	28.8	32.3	33.3	35.0	50.3	53.9	72.8	21.6
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°	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1
2.5°	2164.0	2131.6	2069.5	1997.6	1941.9	1887.0	1843.9	1799.0	1782.8	1774.7	1773.8
5°	2185.5	2117.2	1986.0	1851.1	1740.5	1636.3	1561.6	1490.6	1457.3	1442.0	1435.8
7.5°	2221.5	2111.8	1900.5	1694.7	1535.6	1405.1	1301.8	1224.5	1185.9	1169.7	1163.3
10°	2263.8	2104.6	1800.8	1529.2	1326.1	1191.3	1088.7	1012.3	970.0	952.0	943.1
12.5°	2313.2	2092.1	1685.7	1362.0	1147.2	1012.3	888.2	793.9	745.3	724.7	714.8
15°	2374.3	2079.5	1565.2	1204.7	989.9	825.4	689.5	625.7	615.8	612.2	613.1
17.5°	2434.6	2059.7	1433.9	1049.2	824.4	644.6	575.4	571.8	573.6	573.6	573.6
20°	2488.5	2014.8	1291.0	916.1	667.1	543.9	529.5	523.3	518.8	515.1	510.7
22.5°	2530.7	1954.5	1153.4	784.0	544.8	498.1	475.6	455.8	439.6	428.9	423.5
25°	2559.5	1874.5	1027.6	657.2	490.0	453.1	412.7	379.4	354.2	338.9	332.7
27.5°	2581.1	1788.2	915.2	550.2	452.2	400.9	347.9	308.3	282.3	268.8	263.4
30°	2596.4	1690.2	816.3	483.7	410.0	346.2	289.5	250.9	232.0	224.8	221.1
32.5°	2610.8	1581.4	722.8	452.2	370.4	295.8	242.8	213.0	201.4	192.4	189.7
35°	2646.7	1480.7	633.8	418.9	330.0	252.6	208.6	187.0	175.3	169.9	168.1
37.5°	2732.1	1406.1	548.4	384.8	289.5	218.4	182.5	167.2	156.4	151.0	149.2
40°	2869.7	1368.4	476.5	347.9	249.9	192.4	165.4	151.0	139.4	131.3	129.5
42.5°	3072.0	1373.8	426.2	311.0	218.4	171.7	149.2	132.2	119.6	112.3	110.6
45°	3317.4	1413.3	391.1	275.1	192.4	155.6	131.3	113.3	101.6	95.3	93.5
47.5°	3583.6	1477.2	362.3	242.8	171.7	140.3	113.3	94.4	84.5	79.1	78.2
50°	3864.1	1539.1	332.7	211.3	153.7	124.9	95.3	78.2	70.1	65.7	63.8
52.5°	4148.1	1611.1	305.6	182.5	138.4	106.9	79.1	63.8	57.6	53.9	52.2
55°	4453.8	1665.0	279.6	160.0	123.2	90.8	65.7	53.0	47.7	43.1	42.3
57.5°	4813.4	1748.6	252.6	138.4	105.2	75.5	53.9	42.3	37.7	33.3	32.3
60°	5298.9	1846.6	223.9	122.3	86.3	62.0	44.1	34.2	28.8	25.2	24.3
62.5°	5939.0	1955.4	187.9	106.9	70.1	50.3	35.0	27.0	20.7	16.2	16.2
65°	6750.8	2132.5	153.7	89.9	57.6	41.4	27.0	19.7	11.6	7.2	7.2
67.5°	7224.6	2163.1	124.1	73.7	46.8	35.0	22.5	13.5	3.6	0.9	0.0
69°	7072.7	1986.0	105.2	63.0	40.4	33.3	20.7	9.9	1.8	0.0	0.0
70°	6786.8	1816.1	92.6	55.7	36.9	31.5	19.7	7.2	1.8	0.0	0.0
72.5°	5608.2	1292.8	70.1	41.4	27.0	27.9	18.0	4.5	1.8	0.0	0.0
75°	4085.2	785.8	50.3	28.8	17.0	20.7	12.6	1.8	0.9	0.0	0.0
77.5°	2272.8	370.4	31.5	16.2	10.8	12.6	6.3	0.0	0.0	0.0	0.0
80°	738.1	100.7	14.3	9.0	6.3	7.2	2.7	0.0	0.0	0.0	0.0
82.5°	136.7	28.8	8.1	4.5	1.8	1.8	0.0	0.0	0.0	0.0	0.0
85°	29.6	11.6	4.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	3.6	0.9	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)