

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: P383398

Luminaire Tested: **GLEON-SA7A-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383398
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-SA7A-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA 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: 21844.8 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

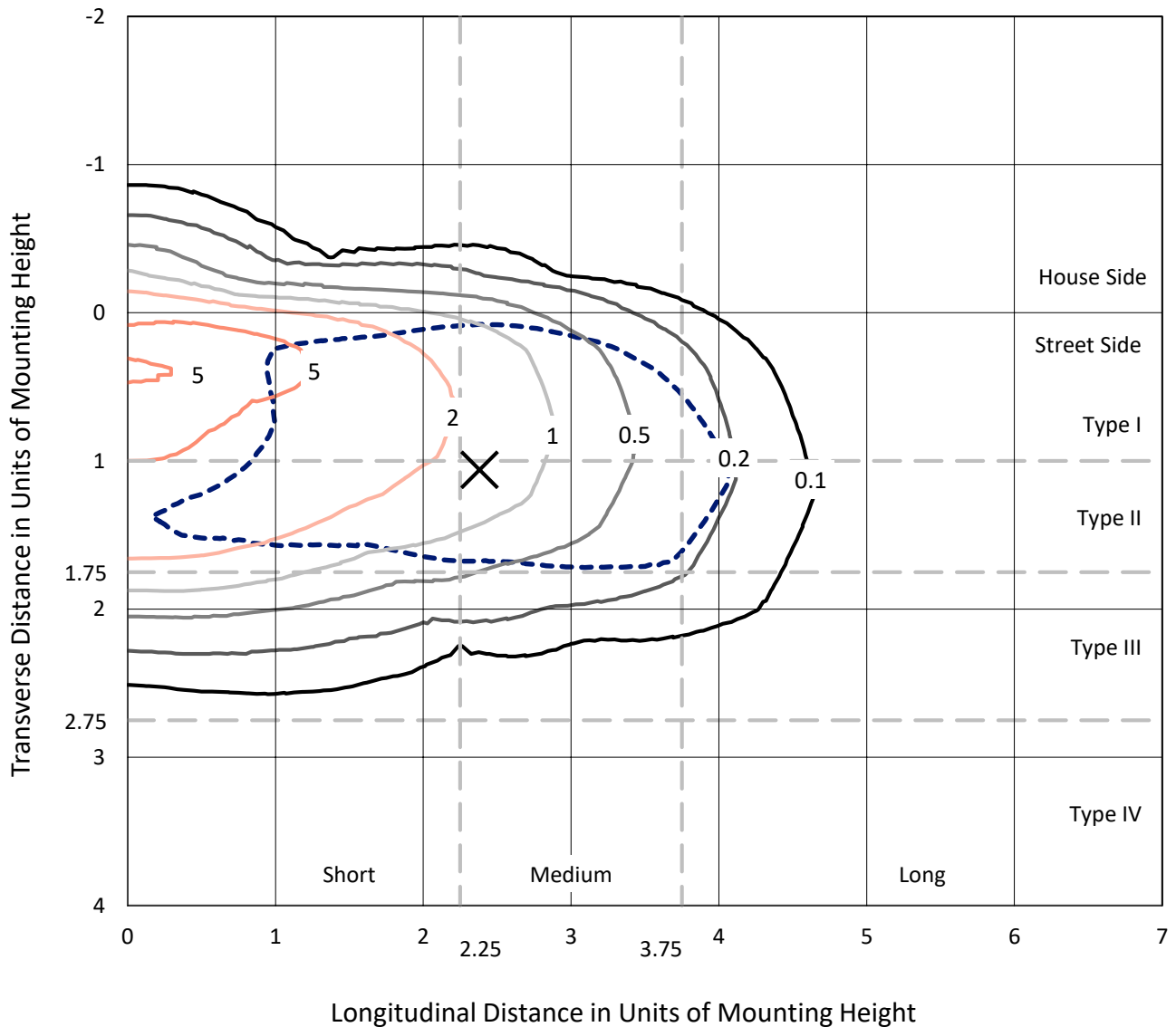
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

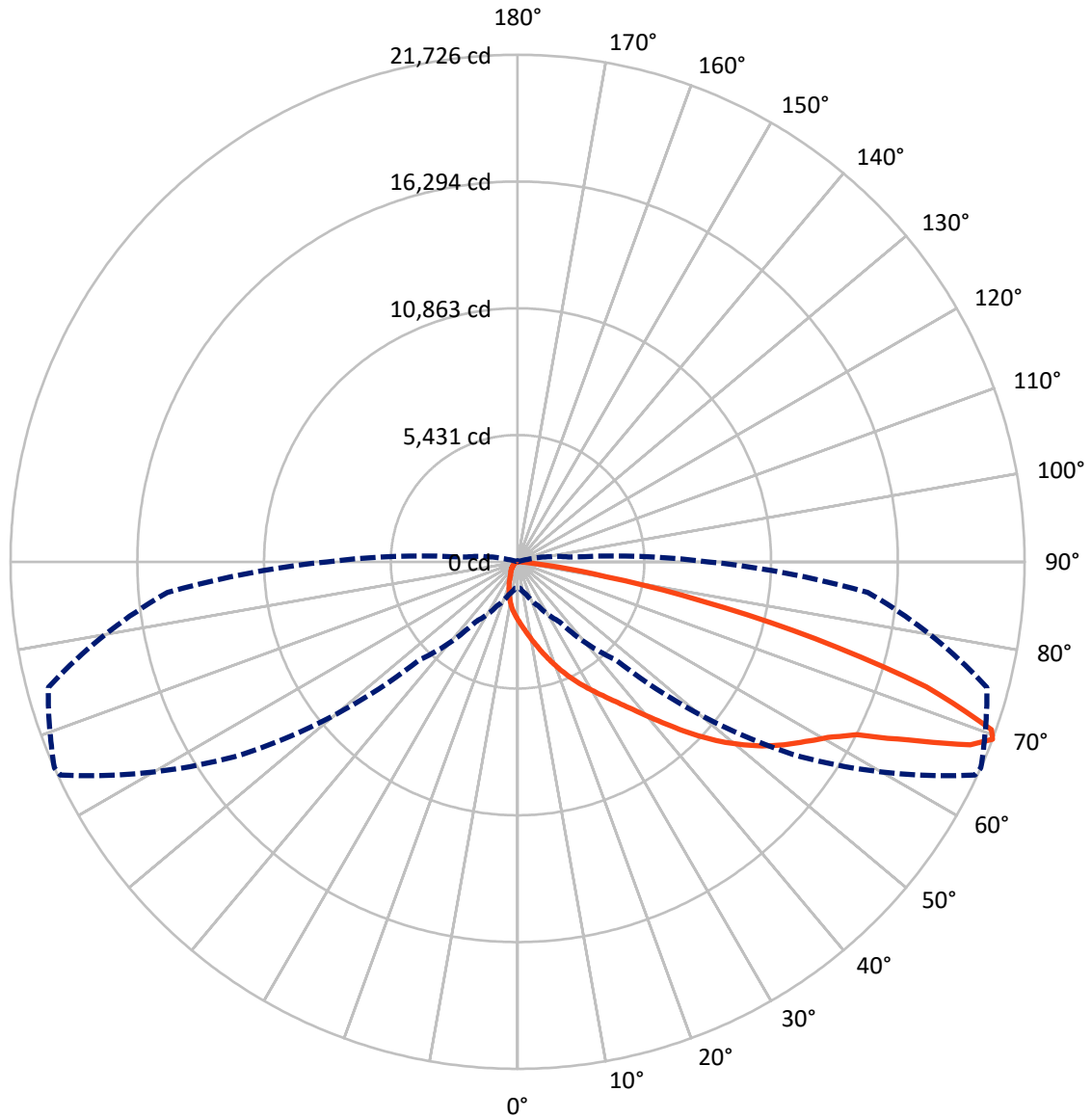
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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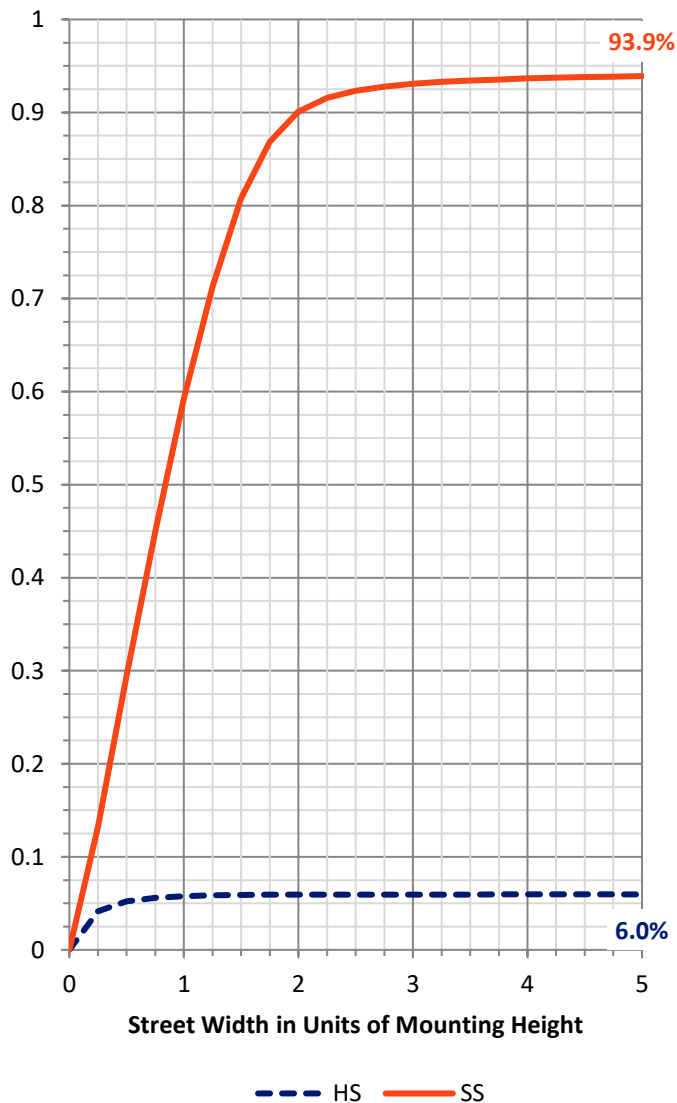
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1310.4	0.0	1310.4
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	20534.4	0.0	20534.4
	% Fixture	94.0	0.0	94.0
Total	Lumens	21844.8	0.0	21844.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.3	1.1
10°-20°	715.2	3.3
20°-30°	1245.4	5.7
30°-40°	2185.1	10.0
40°-50°	3657.5	16.7
50°-60°	5376.2	24.6
60°-70°	5519.9	25.3
70°-80°	2725.0	12.5
80°-90°	180.2	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°	21844.8	100.0
0°-180°	21844.8	100.0

Coefficient of Utilization

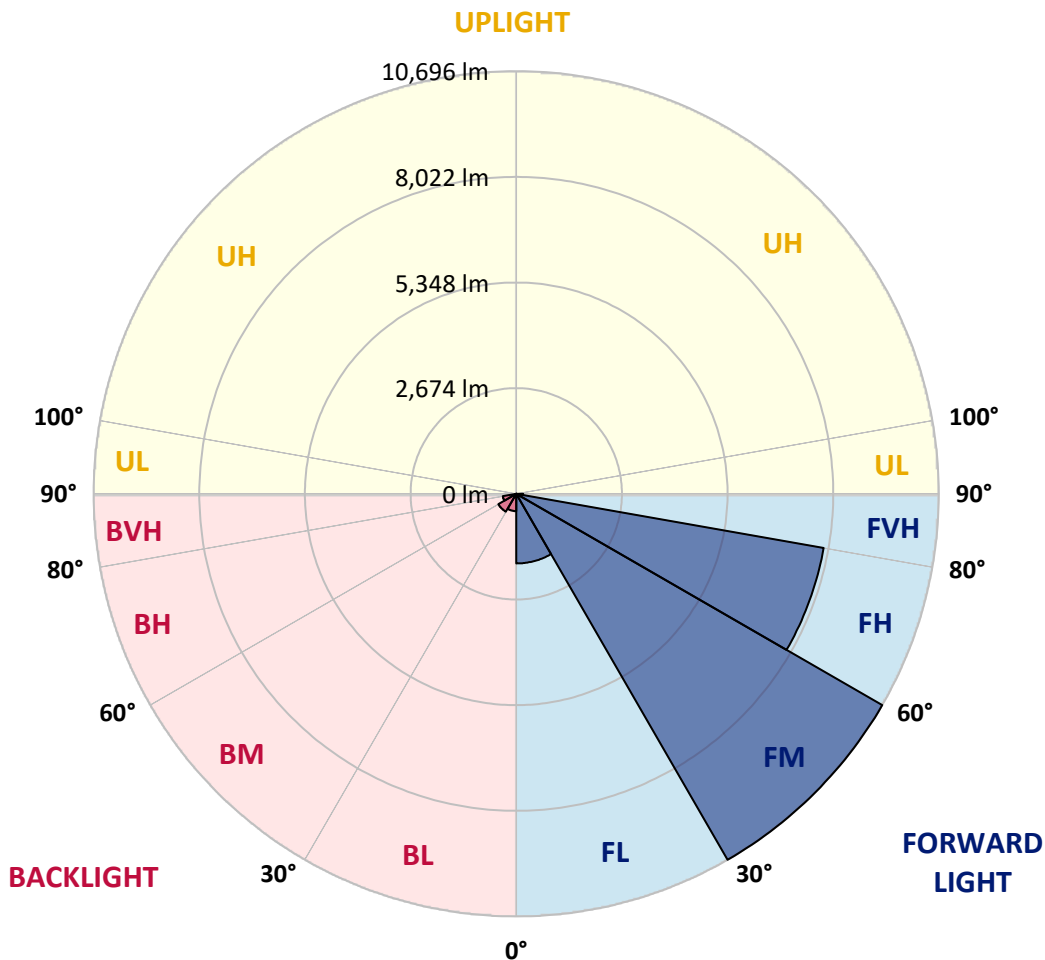


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1762.7	8.1			
FM (30°-60°)	10696.3	49.0			
FH (60°-80°)	7899.7	36.2			G4/12000
FVH (80°-90°)	175.8	0.8			G2/225
BL (0°-30°)	438.2	2.0	B1/500		
BM (30°-60°)	522.5	2.4	B1/1000		
BH (60°-80°)	345.3	1.6	B1/500		G1/500
BVH (80°-90°)	4.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0
2.5°	2925.9	2913.5	2908.3	2885.5	2846.1	2816.0	2757.8	2690.4	2677.9	2612.6	2532.7
5°	3305.7	3295.3	3288.1	3255.9	3215.4	3139.7	3033.9	2908.3	2884.4	2759.9	2600.1
7.5°	3570.2	3589.0	3589.0	3568.2	3517.3	3460.3	3330.6	3159.3	3129.3	2938.4	2690.4
10°	3724.9	3747.7	3765.3	3782.9	3775.7	3752.8	3630.4	3437.4	3401.2	3148.0	2795.2
12.5°	3739.4	3762.2	3812.0	3885.7	3957.3	4009.2	3932.3	3745.6	3704.1	3390.7	2919.7
15°	3658.5	3682.3	3759.1	3902.3	4075.5	4227.1	4252.0	4087.0	4044.4	3680.3	3075.3
17.5°	3517.3	3532.9	3642.9	3841.1	4112.9	4390.9	4541.4	4453.3	4413.8	4011.2	3248.6
20°	3412.5	3424.0	3520.5	3733.2	4090.1	4493.7	4815.4	4842.3	4800.8	4366.1	3436.4
22.5°	3592.0	3612.8	3615.9	3716.6	4027.8	4544.6	5056.1	5225.1	5194.0	4742.7	3621.1
25°	4082.8	4106.7	4027.8	3965.6	4080.7	4567.4	5262.5	5617.4	5592.5	5148.4	3806.9
27.5°	4731.3	4756.2	4654.5	4468.8	4357.8	4653.5	5446.2	6015.8	6014.7	5577.9	4007.1
30°	5368.3	5393.3	5289.5	5103.8	4848.5	4897.3	5604.9	6432.9	6439.1	6021.0	4219.8
32.5°	6036.5	6067.7	5960.8	5722.2	5455.5	5318.6	5828.0	6852.1	6887.4	6534.6	4459.4
35°	6796.0	6800.2	6649.8	6399.7	6092.6	5882.0	6185.9	7322.1	7406.2	7170.6	4763.5
37.5°	7541.1	7571.2	7447.6	7053.4	6771.1	6532.5	6718.2	7909.4	8028.7	7947.8	5160.9
40°	8093.0	8156.3	8138.7	7713.3	7445.6	7275.4	7379.2	8607.7	8759.2	8852.5	5662.0
42.5°	8439.5	8487.3	8568.2	8311.9	8069.2	8097.2	8159.4	9421.1	9607.9	9883.8	6237.8
45°	8836.9	8859.8	8927.2	8814.1	8650.2	8932.4	8987.4	10337.3	10533.4	10993.0	6877.0
47.5°	9322.6	9376.5	9395.1	9291.4	9216.7	9671.1	9785.3	11170.5	11445.4	12181.0	7553.5
50°	9940.9	9955.4	9987.6	9920.1	9845.4	10306.2	10501.2	12045.1	12295.1	13373.2	8220.6
52.5°	10545.9	10597.7	10709.7	10667.2	10637.2	10846.8	11139.3	12833.7	13112.7	14367.2	8886.8
55°	10720.2	10764.8	11151.7	11416.3	11661.2	11512.8	11749.4	13540.2	13842.1	15255.3	9528.0
57.5°	10023.9	10114.2	10784.4	11473.4	12489.2	12548.3	12587.7	14265.5	14536.3	15936.0	10195.1
60°	8264.2	8281.8	9381.7	10563.5	12352.2	13452.0	13812.1	15044.7	15271.9	16569.9	10994.0
62.5°	5256.4	5435.8	6642.5	8310.9	10903.8	13321.3	15292.7	16223.4	16306.4	17330.4	12139.6
65°	2503.6	2619.9	3489.3	5134.9	7897.9	11647.7	16314.7	18355.6	18392.9	18838.0	13669.9
67.5°	1386.1	1442.2	1856.2	2764.1	4617.1	8237.2	15901.7	20881.0	20916.3	20377.8	15012.5
69°	1084.2	1132.0	1457.8	2083.4	3130.4	5920.4	14390.0	21620.8	21725.6	20818.8	15060.2
70°	920.3	967.0	1255.4	1759.7	2517.1	4574.6	12808.8	21437.1	21548.2	20777.2	14704.4
72.5°	563.4	590.4	836.3	1238.9	1687.1	2301.3	7899.0	18129.4	18317.2	19059.0	12637.6
75°	379.8	394.2	523.0	855.0	1206.7	1184.9	4103.6	12778.7	13185.4	14825.8	9333.9
77.5°	271.8	285.3	350.7	553.1	845.7	782.3	1858.3	7941.5	8028.7	8891.9	5090.3
80°	154.6	167.0	248.0	328.9	573.7	521.9	738.7	3793.4	3837.0	3813.0	1699.5
82.5°	81.0	91.3	135.9	216.9	368.3	341.3	307.1	1270.0	1276.2	1061.4	372.5
85°	15.6	18.6	67.4	148.4	189.8	148.4	125.6	297.8	304.0	268.8	92.3
87.5°	0.0	1.0	27.0	33.2	37.4	38.4	40.4	58.1	62.2	84.0	24.9
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°	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0
2.5°	2497.4	2460.0	2388.5	2305.5	2241.1	2177.9	2128.0	2076.1	2057.5	2048.2	2047.1
5°	2522.4	2443.4	2292.0	2136.3	2008.7	1888.3	1802.3	1720.3	1681.9	1664.2	1657.0
7.5°	2563.8	2437.2	2193.4	1955.8	1772.2	1621.7	1502.4	1413.2	1368.5	1349.9	1342.6
10°	2612.6	2428.9	2078.3	1764.9	1530.4	1374.8	1256.5	1168.3	1119.5	1098.8	1088.4
12.5°	2669.6	2414.4	1945.4	1571.9	1323.9	1168.3	1025.1	916.2	860.1	836.3	824.9
15°	2740.2	2399.9	1806.4	1390.3	1142.4	952.5	795.8	722.1	710.8	706.6	707.6
17.5°	2809.7	2377.0	1654.9	1210.8	951.5	743.9	664.0	659.9	662.0	662.0	662.0
20°	2872.0	2325.1	1489.9	1057.3	769.8	627.8	611.1	603.8	598.7	594.5	589.3
22.5°	2920.8	2255.6	1331.2	904.7	628.8	574.8	548.9	526.0	507.4	494.9	488.7
25°	2953.9	2163.3	1186.0	758.5	565.4	523.0	476.2	437.8	408.8	391.2	383.9
27.5°	2978.8	2063.8	1056.3	635.0	521.9	462.8	401.5	355.9	325.8	310.2	304.0
30°	2996.5	1950.7	942.1	558.2	473.1	399.4	334.1	289.5	267.7	259.4	255.2
32.5°	3013.1	1825.1	834.2	521.9	427.5	341.3	280.1	245.9	232.4	222.1	218.9
35°	3054.6	1708.8	731.5	483.5	380.8	291.6	240.7	215.8	202.3	196.1	194.0
37.5°	3153.2	1622.8	632.9	444.1	334.1	252.2	210.6	193.0	180.5	174.3	172.2
40°	3311.9	1579.2	549.9	401.5	288.4	222.1	190.9	174.3	160.8	151.5	149.4
42.5°	3545.4	1585.4	491.8	359.0	252.2	198.1	172.2	152.5	138.0	129.7	127.6
45°	3828.7	1631.0	451.3	317.5	222.1	179.5	151.5	130.7	117.3	110.0	107.9
47.5°	4135.7	1704.7	418.2	280.1	198.1	161.9	130.7	108.9	97.5	91.3	90.3
50°	4459.4	1776.3	383.9	243.8	177.5	144.2	110.0	90.3	81.0	75.7	73.7
52.5°	4787.3	1859.3	352.8	210.6	159.8	123.4	91.3	73.7	66.4	62.2	60.2
55°	5140.1	1921.6	322.7	184.7	142.2	104.8	75.7	61.2	55.0	49.8	48.7
57.5°	5555.1	2018.1	291.6	159.8	121.4	87.2	62.2	48.7	43.6	38.4	37.4
60°	6115.4	2131.2	258.3	141.1	99.6	71.6	50.9	39.4	33.2	29.1	28.0
62.5°	6854.1	2256.7	216.9	123.4	81.0	58.1	40.4	31.1	23.8	18.6	18.6
65°	7791.1	2461.1	177.5	103.8	66.4	47.7	31.1	22.8	13.5	8.3	8.3
67.5°	8337.9	2496.4	143.2	85.1	53.9	40.4	25.9	15.6	4.2	1.0	0.0
69°	8162.5	2292.0	121.4	72.7	46.7	38.4	23.8	11.5	2.0	0.0	0.0
70°	7832.5	2095.9	106.8	64.4	42.6	36.3	22.8	8.3	2.0	0.0	0.0
72.5°	6472.3	1492.1	81.0	47.7	31.1	32.1	20.8	5.2	2.0	0.0	0.0
75°	4714.7	906.9	58.1	33.2	19.7	23.8	14.5	2.0	1.0	0.0	0.0
77.5°	2623.0	427.5	36.3	18.6	12.5	14.5	7.3	0.0	0.0	0.0	0.0
80°	851.8	116.2	16.6	10.3	7.3	8.3	3.1	0.0	0.0	0.0	0.0
82.5°	157.7	33.2	9.3	5.2	2.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	34.3	13.5	5.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.5	4.2	1.0	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)