

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: P382840

Luminaire Tested: **GLEON-SA2A-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382840
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-SA2A-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA 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: 7170.1 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

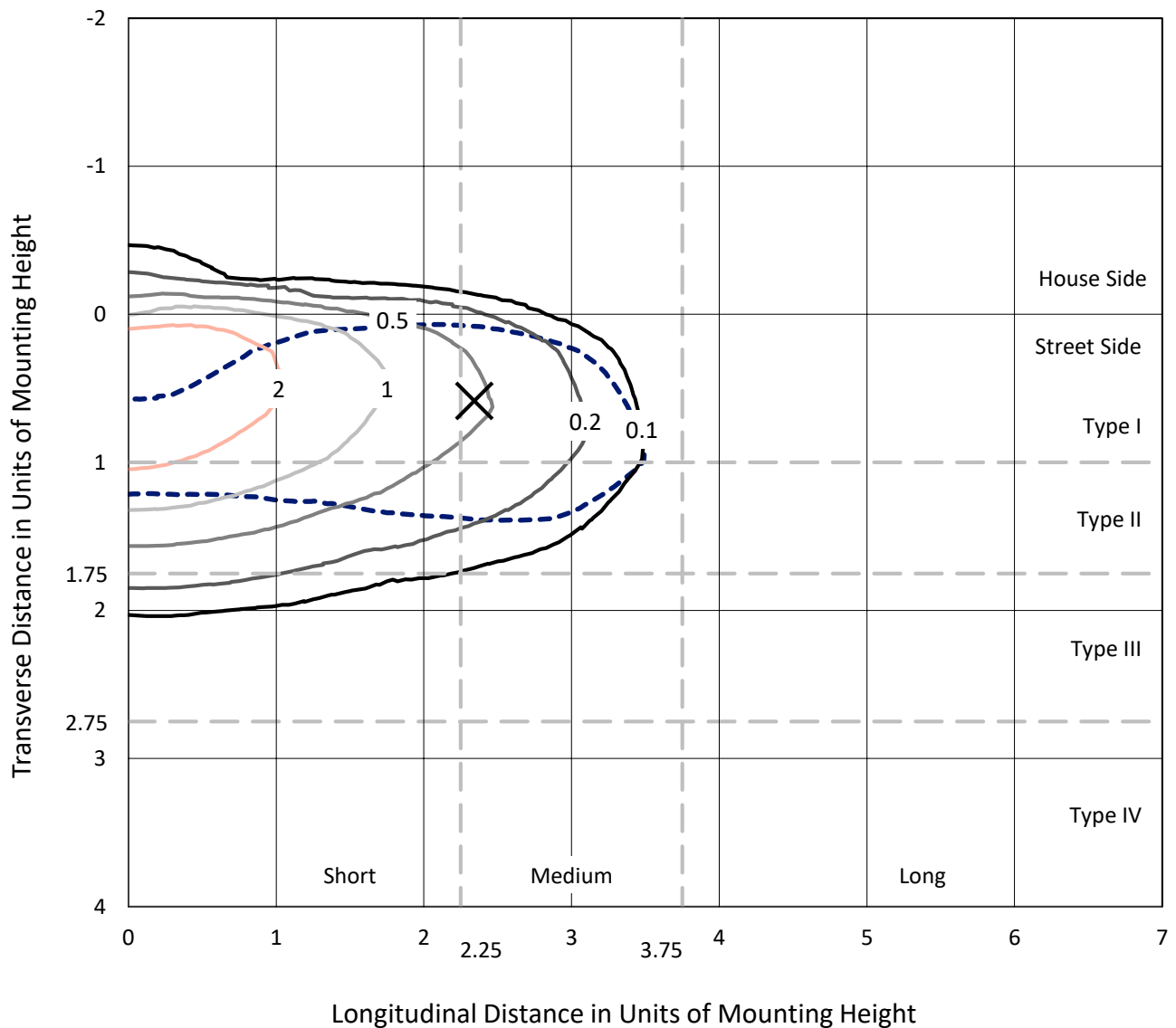
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382840
 CATALOG NUMBER: GLEON-SA2A-735-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

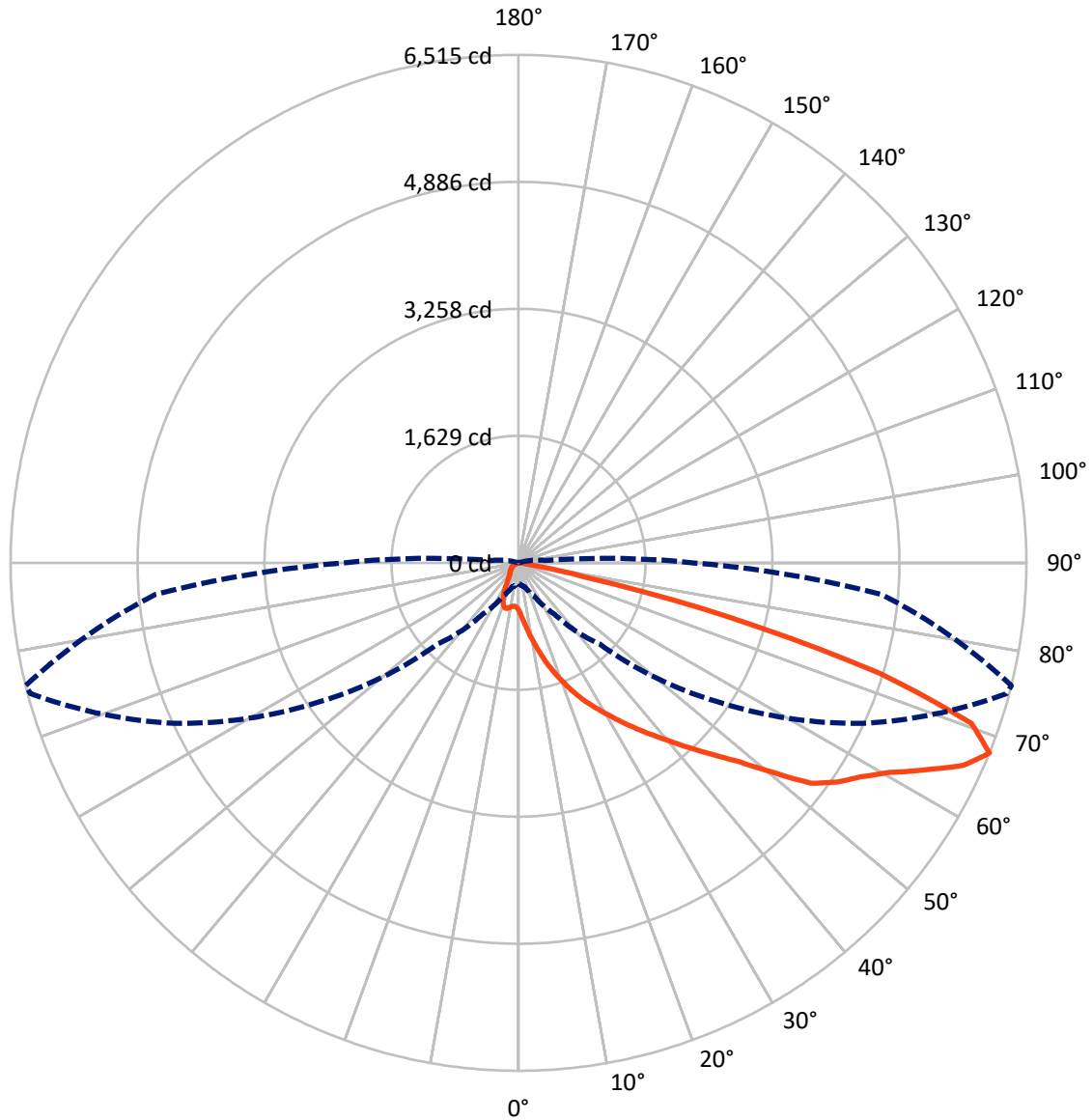
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P382840
CATALOG NUMBER: GLEON-SA2A-735-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: GLEON-SA2A-735-U-T2R-HSS

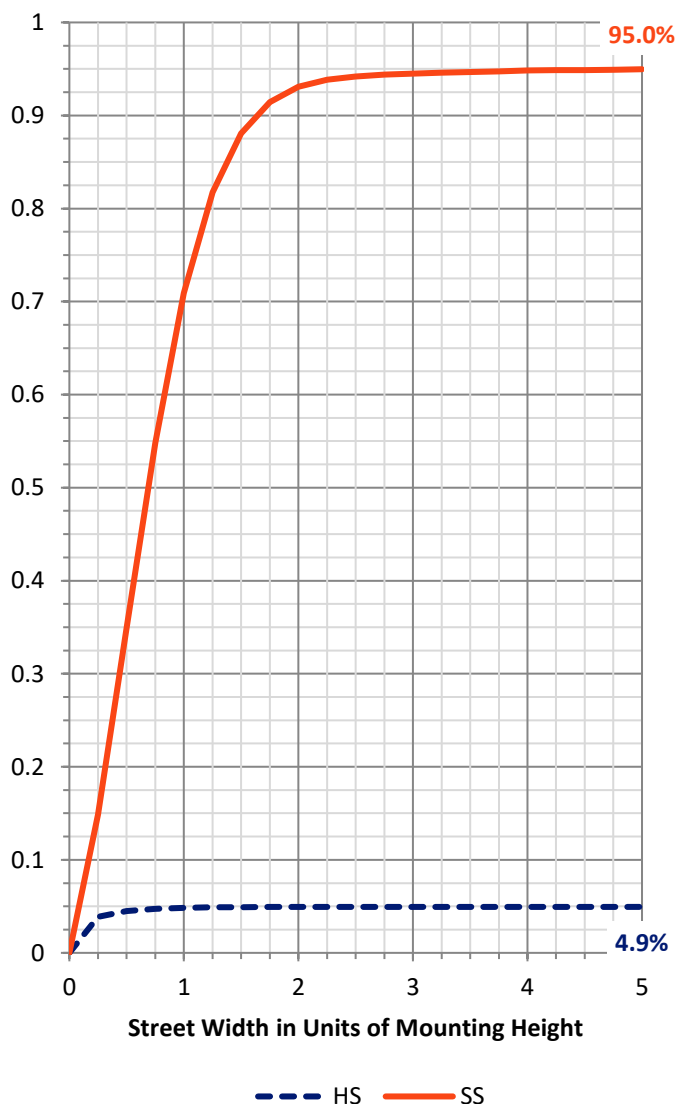
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	356.1	0.0	356.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	6814.1	0.0	6814.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	7170.1	0.0	7170.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	1.1
10°-20°	299.8	4.2
20°-30°	610.0	8.5
30°-40°	1058.8	14.8
40°-50°	1496.0	20.9
50°-60°	1696.5	23.7
60°-70°	1407.1	19.6
70°-80°	509.7	7.1
80°-90°	16.5	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°	7170.1	100.0
0°-180°	7170.1	100.0

Coefficient of Utilization

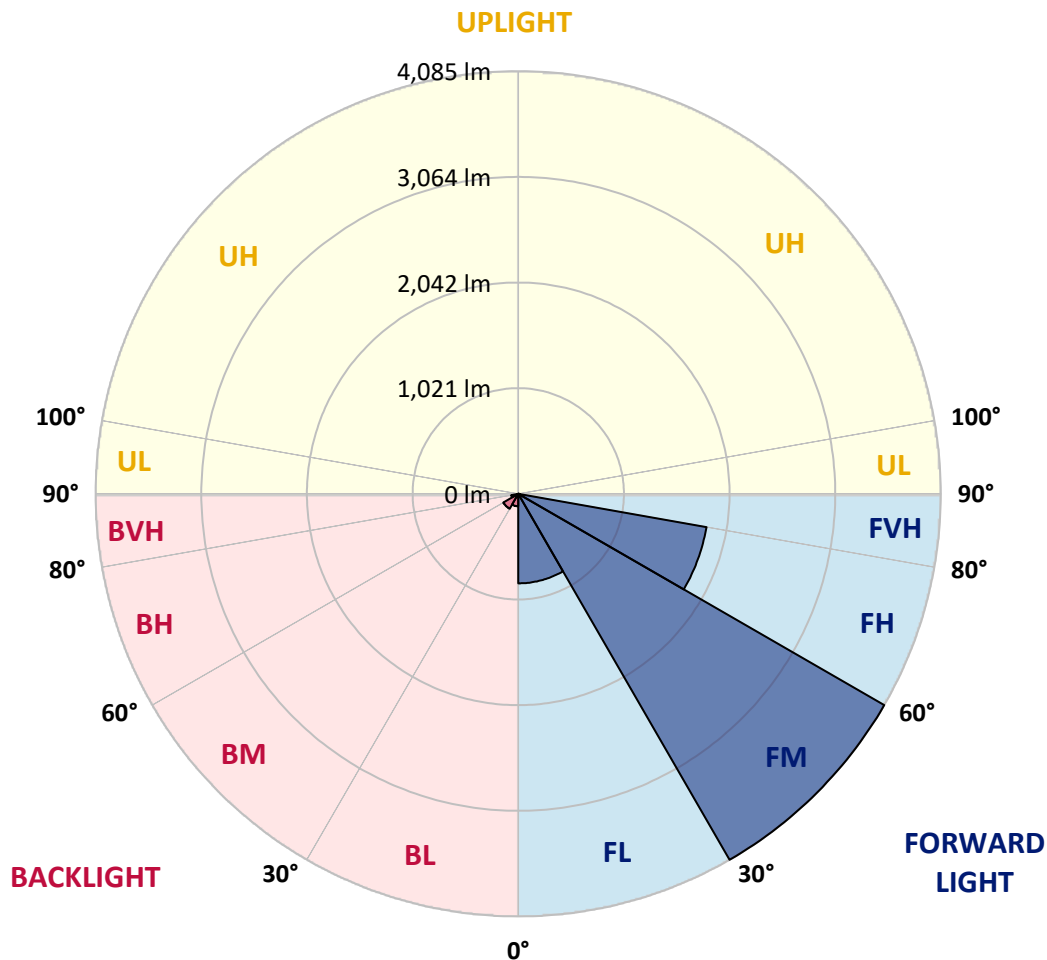


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	865.4	12.1			
FM (30°-60°)	4084.7	57.0			
FH (60°-80°)	1848.0	25.8			G2/5000
FVH (80°-90°)	16.0	0.2			G1/100
BL (0°-30°)	120.1	1.7	B1/500		
BM (30°-60°)	166.6	2.3	B0/220		
BH (60°-80°)	68.8	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	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-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2
2.5°	908.0	887.5	892.2	879.0	855.2	806.2	764.3	724.8	678.6	677.0	639.0
5°	1224.3	1207.0	1204.9	1178.1	1134.8	1051.5	970.5	878.1	775.0	767.5	686.7
7.5°	1511.4	1497.6	1492.6	1460.9	1380.2	1299.1	1193.5	1057.8	896.6	882.8	751.2
10°	1732.0	1725.4	1726.7	1704.1	1635.0	1559.5	1421.0	1247.9	1034.6	1013.2	828.4
12.5°	1899.1	1900.7	1912.0	1898.2	1859.6	1803.7	1655.6	1450.5	1187.3	1158.0	916.7
15°	2022.0	2029.8	2050.6	2067.8	2065.1	2016.6	1881.0	1656.3	1349.3	1317.0	1015.1
17.5°	2101.5	2110.3	2140.4	2178.8	2213.9	2202.6	2098.3	1854.9	1513.4	1475.9	1120.4
20°	2171.3	2181.6	2213.9	2264.5	2330.2	2344.3	2275.9	2047.4	1677.1	1631.5	1229.0
22.5°	2322.3	2322.1	2341.8	2371.3	2433.9	2470.3	2427.0	2226.2	1838.9	1791.4	1339.9
25°	2595.7	2585.3	2578.4	2555.1	2568.9	2591.6	2567.4	2393.3	2001.6	1953.5	1452.4
27.5°	2920.5	2926.8	2870.8	2808.3	2760.0	2736.7	2697.1	2548.2	2158.0	2105.3	1562.4
30°	3263.3	3265.2	3199.2	3119.4	3012.9	2924.6	2856.1	2696.2	2318.9	2261.4	1669.1
32.5°	3572.4	3560.2	3494.8	3386.2	3251.7	3152.4	3010.1	2861.4	2489.2	2433.6	1787.9
35°	3817.5	3803.0	3723.6	3624.6	3485.1	3385.2	3213.9	3026.4	2668.2	2613.9	1907.0
37.5°	3996.5	3979.6	3897.9	3796.1	3675.8	3617.7	3450.5	3205.8	2863.7	2805.3	2032.4
40°	4058.8	4044.0	3992.8	3918.4	3821.6	3808.4	3701.6	3412.2	3076.3	3014.1	2174.4
42.5°	4021.7	4007.2	3989.0	3963.9	3923.7	3936.3	3938.4	3647.5	3312.6	3251.4	2331.1
45°	3874.7	3861.8	3880.6	3917.4	3967.4	4029.6	4154.6	3900.4	3576.5	3511.2	2512.4
47.5°	3658.2	3648.8	3700.9	3792.7	3938.8	4110.3	4352.2	4166.3	3872.8	3812.2	2738.7
50°	3350.3	3348.7	3453.1	3620.5	3845.1	4149.2	4556.4	4468.4	4284.4	4220.6	3053.1
52.5°	2870.8	2874.0	3079.2	3347.1	3680.8	4122.8	4687.7	4856.7	4763.1	4696.9	3325.5
55°	2414.4	2433.3	2578.7	2965.1	3428.8	4024.8	4733.0	5038.0	5027.4	4964.5	3476.9
57.5°	1967.3	2001.6	2141.7	2502.7	3061.0	3798.9	4708.1	5116.6	5224.0	5176.0	3676.7
60°	1482.9	1498.6	1660.1	1997.5	2588.8	3386.7	4528.2	5159.3	5493.0	5459.6	3966.7
62.5°	943.5	982.7	1126.0	1451.4	2015.7	2814.3	4224.7	5158.7	5829.4	5847.7	4340.9
65°	497.0	542.9	618.9	899.5	1385.2	2175.0	3768.2	5110.3	6242.2	6267.7	4633.4
67.5°	268.0	281.1	321.4	466.9	803.4	1473.4	3097.4	4871.5	6481.3	6515.0	4674.2
70°	196.0	203.3	218.4	258.2	404.3	855.8	2260.1	4330.2	6173.2	6160.6	4153.0
72.5°	150.4	161.8	173.1	189.1	232.5	456.8	1407.2	3390.8	4925.6	4842.7	3104.3
75°	118.8	120.6	136.7	151.1	174.4	260.1	624.9	1974.9	3006.3	2809.9	1609.8
77.5°	94.9	96.1	105.5	118.1	140.1	170.9	193.5	776.9	959.8	856.5	349.3
80°	56.3	59.3	78.5	91.1	116.3	107.8	70.7	168.7	149.9	135.7	58.8
82.5°	31.4	33.9	44.3	71.9	81.0	51.5	35.2	45.6	35.2	34.3	16.7
85°	0.0	1.6	28.6	44.6	33.0	11.3	14.8	15.1	10.3	9.8	6.6
87.5°	0.0	0.0	8.8	8.5	1.2	1.9	3.4	5.0	4.1	4.1	3.4
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: P382840

CATALOG NUMBER: GLEON-SA2A-735-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2
2.5°	620.1	603.2	571.1	539.7	513.4	491.7	472.2	464.4	458.0	457.1	452.1
5°	647.8	613.6	552.3	502.0	468.4	444.5	424.1	411.6	401.9	398.1	394.6
7.5°	689.6	637.7	549.8	492.0	451.8	411.6	373.8	333.0	307.6	297.8	292.1
10°	740.5	669.8	559.2	489.2	418.8	334.0	271.5	219.6	198.5	191.6	189.8
12.5°	799.9	709.7	575.6	471.5	348.4	237.2	187.2	169.6	165.0	162.7	162.7
15°	868.0	753.3	587.2	420.7	257.7	179.4	162.1	154.0	149.0	146.1	146.4
17.5°	937.8	796.1	581.6	346.8	190.0	159.6	146.7	138.0	131.0	128.2	127.5
20°	1008.2	835.7	550.1	258.2	160.9	144.9	130.4	120.6	113.7	110.9	110.3
22.5°	1081.1	869.3	494.8	189.5	144.5	128.5	114.4	104.6	98.0	95.5	94.3
25°	1152.0	896.6	417.5	153.3	129.1	113.1	99.6	90.5	84.5	82.0	81.7
27.5°	1218.4	913.9	328.0	135.4	115.6	99.3	87.0	78.9	73.9	71.9	71.6
30°	1278.1	915.5	242.6	122.2	103.7	87.4	76.0	68.8	64.4	62.5	61.9
32.5°	1338.4	902.3	176.5	110.3	92.7	76.9	66.0	60.4	57.2	55.6	55.6
35°	1395.3	871.8	137.6	99.9	82.0	66.9	58.1	54.0	52.2	50.6	50.6
37.5°	1450.9	828.1	116.9	90.8	71.9	58.4	51.2	48.7	47.1	45.6	45.6
40°	1507.4	773.2	106.2	82.3	63.8	51.8	45.6	43.3	41.8	40.5	40.2
42.5°	1576.8	709.7	99.3	74.4	56.5	45.8	40.2	37.7	36.4	35.2	34.6
45°	1657.2	655.1	93.6	66.6	50.6	40.8	34.8	32.3	30.5	28.9	28.6
47.5°	1773.2	615.5	86.1	58.1	44.9	35.5	30.2	27.3	24.5	22.9	22.6
50°	1921.1	582.8	76.4	50.6	39.3	30.2	25.2	21.7	19.2	17.6	17.6
52.5°	1994.6	540.0	67.5	44.0	33.0	25.4	20.4	16.3	15.1	13.5	13.5
55°	2024.2	507.4	58.8	37.4	27.3	21.1	16.0	12.6	11.6	10.7	10.3
57.5°	2107.2	498.0	51.2	31.8	22.6	16.7	12.3	9.4	8.8	7.5	7.5
60°	2240.7	502.7	44.3	27.0	18.3	12.9	9.1	7.3	6.6	5.3	5.3
62.5°	2384.9	496.7	37.4	23.3	14.2	9.4	6.2	5.3	5.3	3.2	2.8
65°	2412.5	442.4	32.0	19.2	11.0	6.9	4.1	3.4	4.8	0.7	0.0
67.5°	2239.1	343.1	27.7	14.8	8.2	5.3	3.2	1.6	4.1	0.0	0.0
70°	1790.4	218.1	22.3	10.7	6.2	4.4	2.5	0.7	3.2	0.0	0.0
72.5°	1266.1	126.6	17.6	7.5	5.3	3.4	1.9	0.0	1.9	0.0	0.0
75°	640.3	67.5	11.0	5.7	4.1	2.5	1.2	0.0	0.3	0.0	0.0
77.5°	138.5	31.4	6.9	4.1	2.8	1.6	0.7	0.0	0.0	0.0	0.0
80°	30.2	13.8	4.4	2.5	1.6	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	11.0	7.3	2.2	1.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.0	3.7	1.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.2	0.3	0.3	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)