

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: P528109

Luminaire Tested: **GALN-SA3A-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6399 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

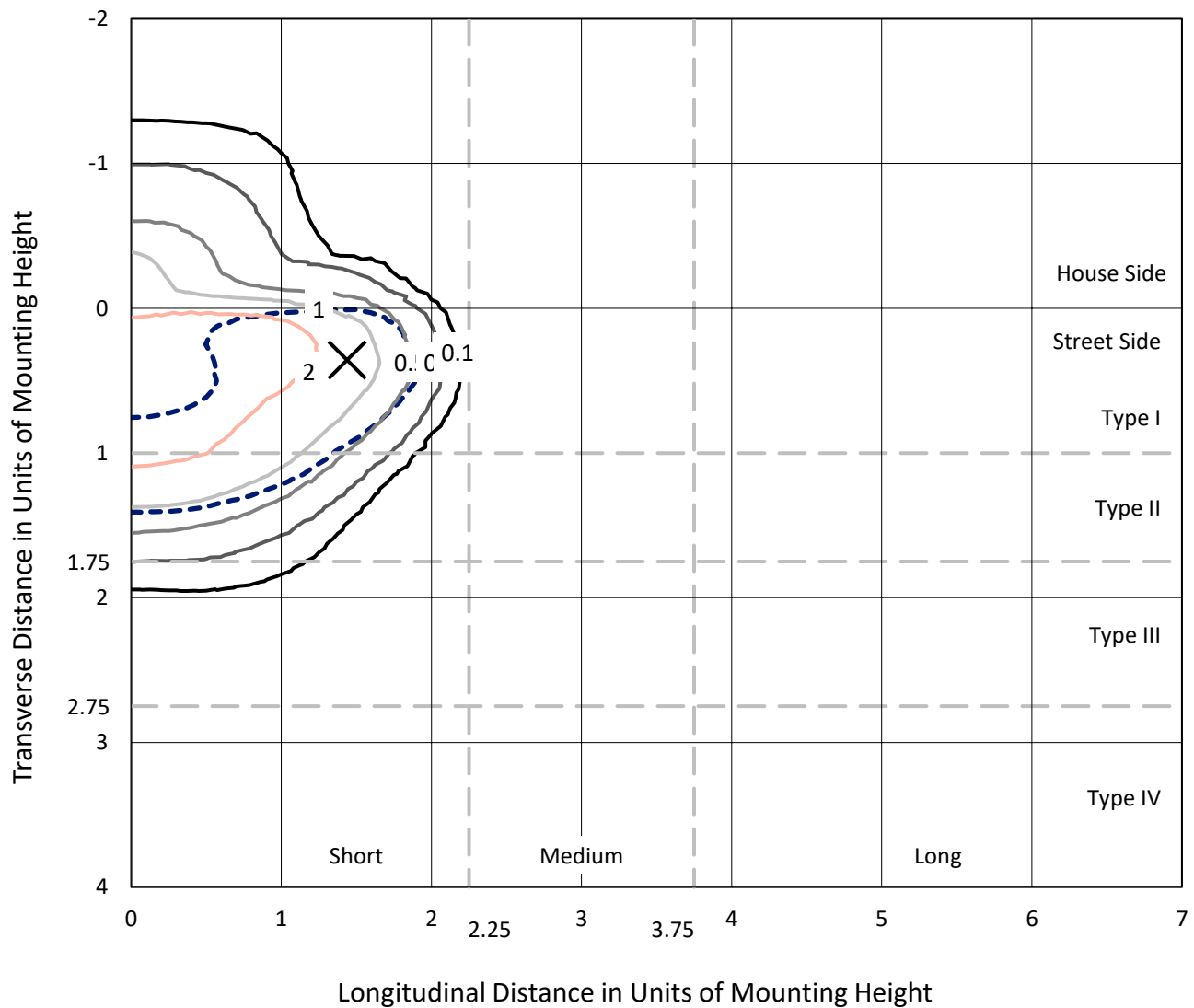
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

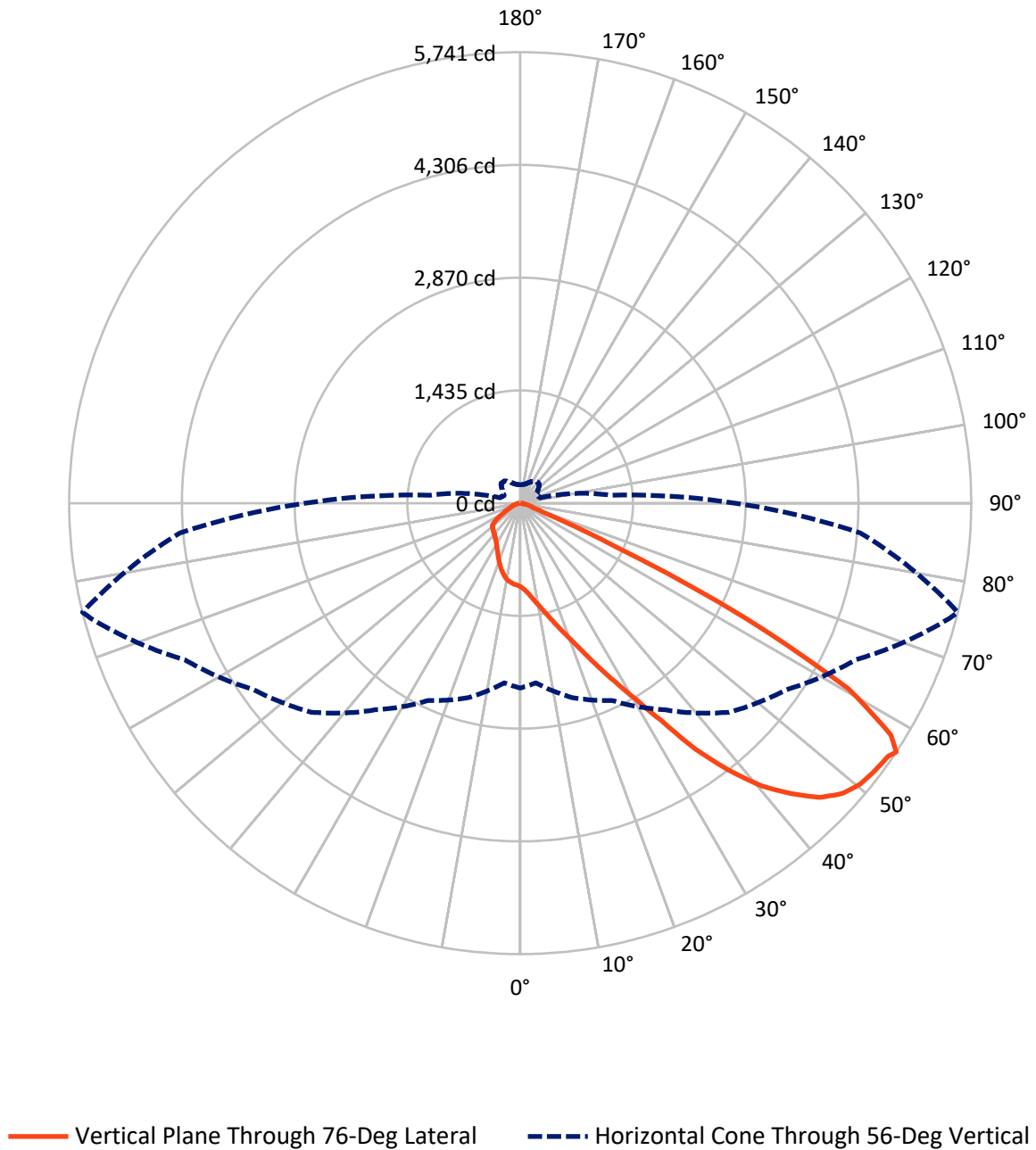
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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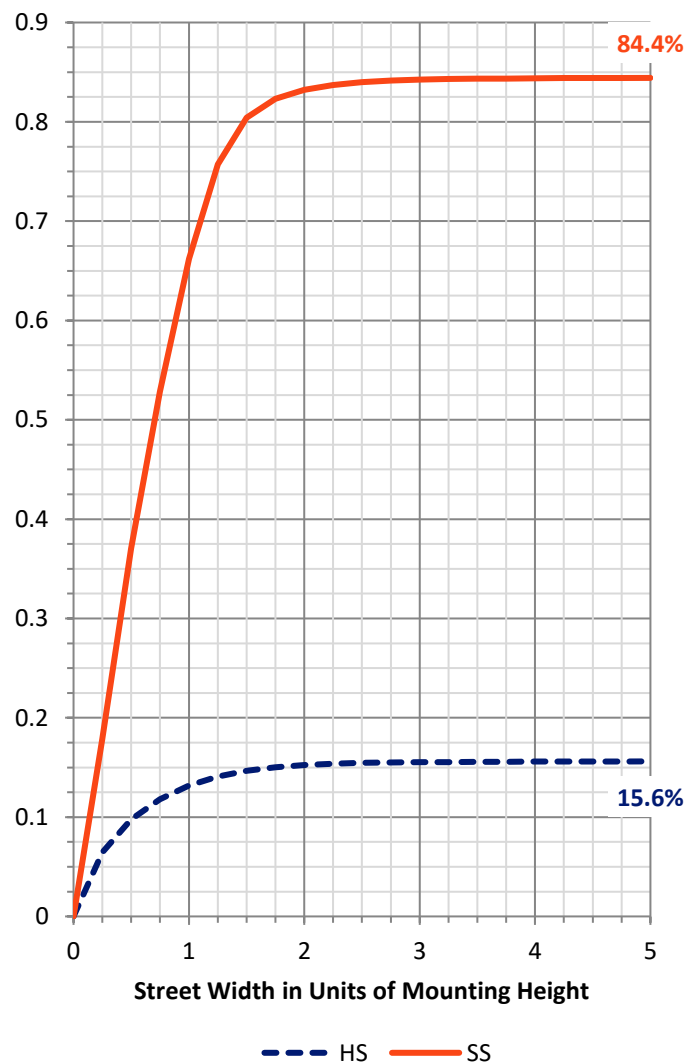
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1005.2	0.0	1005.2
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	5393.7	0.0	5393.7
	% Fixture	84.3	0.0	84.3
Total	Lumens	6399.0	0.0	6399.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	1.7
10°-20°	344.7	5.4
20°-30°	625.0	9.8
30°-40°	1077.9	16.8
40°-50°	1751.1	27.4
50°-60°	1845.7	28.8
60°-70°	563.9	8.8
70°-80°	72.3	1.1
80°-90°	11.0	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°	6399.0	100.0
0°-180°	6399.0	100.0

Coefficient of Utilization



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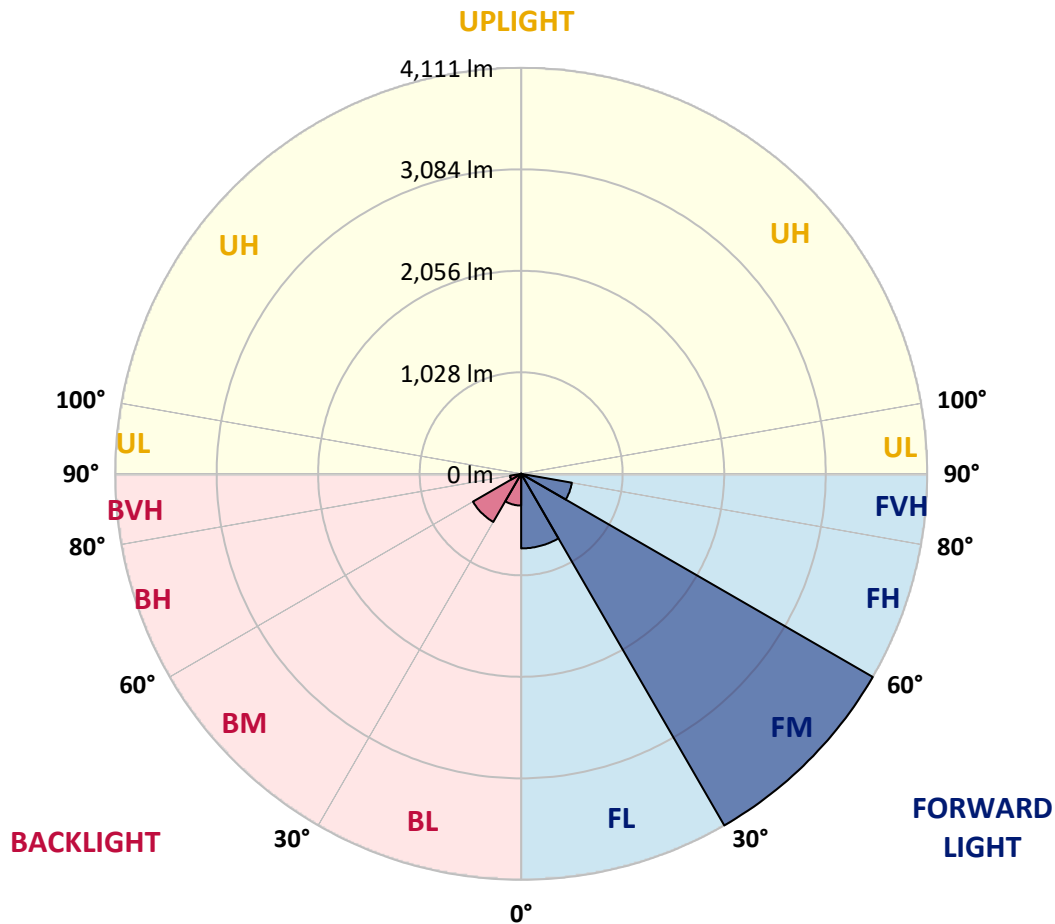
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	755.5	11.8			
FM	(30°-60°)	4111.3	64.2			
FH	(60°-80°)	521.6	8.2			G0/660
FVH	(80°-90°)	5.4	0.1			G0/10
BL	(0°-30°)	321.6	5.0	B1/500		
BM	(30°-60°)	563.4	8.8	B1/1000		
BH	(60°-80°)	114.7	1.8	B1/500		G1/500
BVH	(80°-90°)	5.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1
2.5°	1226.7	1198.4	1199.6	1197.2	1193.7	1180.7	1141.8	1135.9	1109.9	1102.9	1079.3
5°	1374.2	1349.4	1363.5	1342.3	1322.3	1310.5	1246.8	1217.3	1176.0	1160.7	1127.6
7.5°	1466.2	1454.4	1449.7	1450.8	1432.0	1402.5	1374.2	1309.3	1253.8	1242.1	1172.5
10°	1511.0	1503.9	1511.0	1507.5	1515.7	1519.2	1469.7	1430.8	1349.4	1329.3	1220.8
12.5°	1521.6	1535.8	1541.7	1557.0	1577.0	1611.2	1607.7	1554.6	1446.1	1433.1	1295.1
15°	1547.6	1559.3	1553.5	1578.2	1616.0	1673.8	1704.4	1696.2	1579.4	1555.8	1381.2
17.5°	1571.1	1549.9	1570.0	1619.5	1657.3	1745.7	1820.0	1854.2	1724.5	1697.4	1460.3
20°	1603.0	1597.1	1593.6	1618.3	1685.6	1803.5	1951.0	2013.5	1887.3	1859.0	1573.5
22.5°	1699.7	1700.9	1698.5	1662.0	1710.3	1843.6	2065.4	2219.9	2081.9	2058.3	1702.1
25°	1827.1	1811.8	1800.0	1770.5	1764.6	1880.2	2181.0	2472.3	2315.4	2298.9	1841.3
27.5°	1961.6	1961.6	1926.2	1899.1	1861.3	1971.0	2287.1	2717.7	2597.3	2574.9	1962.8
30°	2107.8	2116.1	2111.4	2053.6	2030.0	2070.1	2395.6	3031.4	2920.5	2892.2	2163.3
32.5°	2323.7	2306.0	2326.0	2277.7	2208.1	2243.5	2566.7	3312.1	3340.5	3300.3	2426.3
35°	2609.1	2598.5	2585.5	2506.5	2424.0	2452.3	2808.5	3657.7	3867.7	3847.7	2691.7
37.5°	2865.1	2859.2	2848.6	2794.3	2698.8	2733.0	3083.3	4017.5	4382.0	4315.9	3066.8
40°	3134.0	3165.9	3131.7	3083.3	2996.0	3071.5	3406.5	4231.0	4814.9	4734.7	3353.4
42.5°	3498.5	3473.7	3489.1	3400.6	3353.4	3436.0	3730.9	4444.5	5151.0	5055.5	3657.7
45°	3886.6	3887.8	3846.5	3818.2	3695.5	3785.1	3930.2	4562.5	5418.8	5344.5	3887.8
47.5°	4135.5	4134.3	4179.1	4223.9	4097.7	4009.3	4065.9	4674.5	5556.8	5522.6	3971.5
50°	4096.5	4108.3	4166.1	4333.6	4399.7	4280.5	4193.3	4641.5	5619.3	5615.8	4043.5
52.5°	3563.4	3602.3	3699.0	3940.8	4273.5	4420.9	4326.5	4702.8	5650.0	5655.9	4150.8
55°	2712.9	2734.2	2918.2	3211.9	3579.9	4084.7	4273.5	4751.2	5673.6	5684.2	4280.5
56°	2353.2	2296.6	2562.0	2770.7	3210.7	3762.7	4139.0	4713.4	5659.4	5740.8	4345.4
57.5°	1776.4	1738.6	1953.3	2214.0	2637.4	3220.1	3721.4	4535.3	5563.9	5562.7	4252.2
60°	1080.5	1042.7	1207.8	1361.2	1598.3	1982.8	2514.8	3611.7	4704.0	4803.1	3443.1
62.5°	642.8	666.4	829.2	922.4	999.1	1039.2	1301.0	2146.8	3138.8	3209.5	2136.1
65°	428.2	436.4	559.1	712.4	746.6	594.5	529.6	869.3	1361.2	1317.5	881.1
67.5°	264.2	283.1	375.1	535.5	593.3	434.1	251.2	324.4	375.1	375.1	254.8
70°	160.4	169.9	250.1	364.5	406.9	279.6	182.8	182.8	180.5	176.9	152.2
72.5°	76.7	82.6	127.4	187.5	191.1	147.4	141.5	154.5	151.0	149.8	126.2
75°	33.0	35.4	44.8	59.0	67.2	62.5	86.1	110.9	114.4	110.9	90.8
77.5°	10.6	11.8	16.5	21.2	22.4	27.1	36.6	46.0	53.1	49.5	44.8
80°	1.2	2.4	4.7	10.6	16.5	21.2	27.1	30.7	34.2	34.2	31.8
82.5°	1.2	1.2	4.7	9.4	15.3	20.1	25.9	29.5	34.2	35.4	33.0
85°	0.0	1.2	3.5	8.3	13.0	13.0	11.8	11.8	8.3	8.3	8.3
87.5°	0.0	0.0	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4
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°	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1
2.5°	1074.6	1072.2	1040.4	1020.3	1009.7	988.5	975.5	966.0	959.0	950.7	951.9
5°	1088.7	1080.5	1027.4	990.8	947.2	923.6	903.5	887.0	876.4	874.0	869.3
7.5°	1128.8	1085.2	1005.0	938.9	883.5	859.9	842.2	831.6	836.3	825.7	833.9
10°	1159.5	1094.6	977.8	882.3	826.9	809.2	799.7	808.0	819.8	815.1	809.2
12.5°	1197.2	1104.0	934.2	828.0	776.1	763.2	779.7	795.0	818.6	828.0	816.2
15°	1239.7	1114.7	878.8	765.5	732.5	743.1	771.4	798.5	822.1	833.9	841.0
17.5°	1291.6	1111.1	824.5	716.0	691.2	721.9	756.1	780.9	816.2	833.9	829.2
20°	1340.0	1099.3	764.3	666.4	667.6	695.9	724.2	764.3	783.2	806.8	798.5
22.5°	1386.0	1078.1	701.8	632.2	632.2	675.9	690.0	716.0	732.5	744.3	743.1
25°	1450.8	1038.0	649.9	599.2	613.4	641.7	653.5	661.7	654.6	664.1	665.3
27.5°	1496.8	996.7	607.5	569.7	595.7	616.9	613.4	608.6	592.1	579.2	587.4
30°	1546.4	948.3	570.9	549.7	563.8	582.7	568.5	554.4	528.4	507.2	508.4
32.5°	1617.1	925.9	539.0	526.1	544.9	547.3	532.0	510.7	484.8	464.7	463.6
35°	1749.3	911.8	511.9	510.7	514.3	515.5	500.1	474.2	463.6	447.0	452.9
37.5°	1881.4	904.7	493.0	488.3	487.1	488.3	470.6	445.9	465.9	464.7	467.1
40°	2050.0	936.6	465.9	460.0	461.2	461.2	438.8	431.7	467.1	470.6	471.8
42.5°	2221.1	976.7	448.2	429.4	434.1	434.1	422.3	414.0	438.8	415.2	411.7
45°	2369.7	1035.6	429.4	398.7	410.5	416.4	412.8	398.7	383.3	343.2	343.2
47.5°	2418.1	1087.5	406.9	369.2	378.6	404.6	394.0	364.5	337.3	304.3	302.0
50°	2503.0	1144.2	389.2	335.0	355.0	386.9	376.3	346.8	316.1	292.5	293.7
52.5°	2590.3	1209.0	356.2	294.9	319.7	372.7	372.7	339.7	292.5	276.0	273.7
55°	2721.2	1206.7	297.2	241.8	285.4	351.5	357.4	304.3	261.9	248.9	248.9
56°	2740.1	1152.4	267.8	226.5	270.1	345.6	346.8	294.9	250.1	235.9	235.9
57.5°	2598.5	1040.4	234.7	207.6	251.2	335.0	336.2	286.6	240.6	220.6	218.2
60°	1999.3	704.2	195.8	185.2	227.7	302.0	307.9	260.7	211.1	195.8	194.6
62.5°	1128.8	390.4	172.2	167.5	195.8	257.1	274.8	227.7	179.3	171.0	173.4
65°	515.5	214.7	145.1	135.6	158.1	198.2	221.8	187.5	147.4	138.0	138.0
67.5°	188.7	146.3	123.9	107.3	110.9	128.6	143.9	121.5	97.9	83.7	87.3
70°	134.5	122.7	108.5	93.2	86.1	83.7	82.6	68.4	48.4	37.7	40.1
72.5°	108.5	101.4	90.8	79.0	67.2	56.6	48.4	35.4	22.4	15.3	14.2
75°	77.8	74.3	66.1	56.6	47.2	40.1	33.0	22.4	11.8	5.9	5.9
77.5°	40.1	40.1	38.9	35.4	29.5	23.6	18.9	13.0	7.1	2.4	2.4
80°	30.7	33.0	34.2	30.7	27.1	21.2	15.3	9.4	4.7	1.2	1.2
82.5°	29.5	34.2	36.6	31.8	27.1	20.1	15.3	9.4	4.7	1.2	1.2
85°	7.1	7.1	10.6	11.8	15.3	16.5	13.0	8.3	3.5	1.2	1.2
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	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)