

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: P532089

Luminaire Tested: **GALN-SA7B-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20829 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

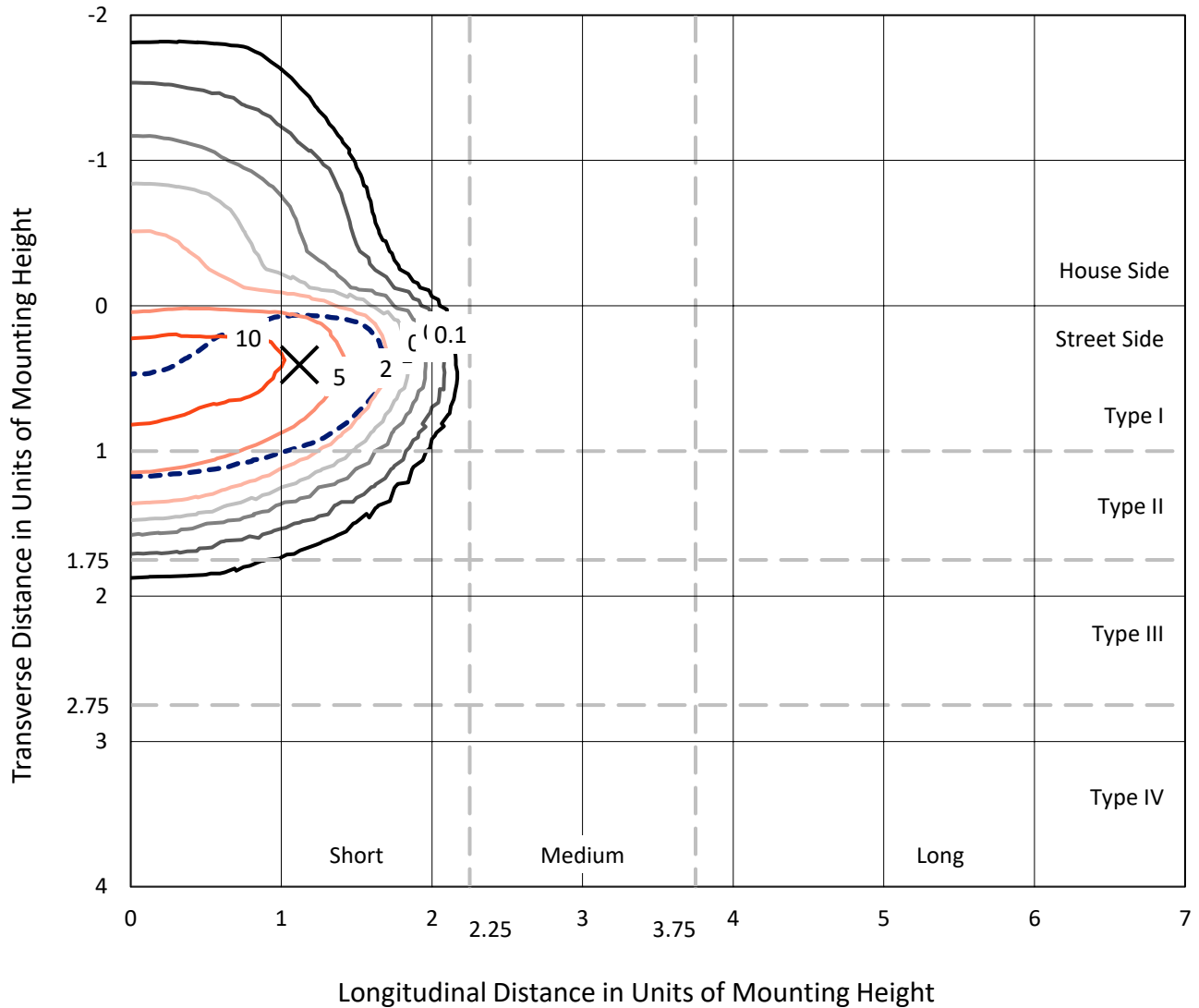
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

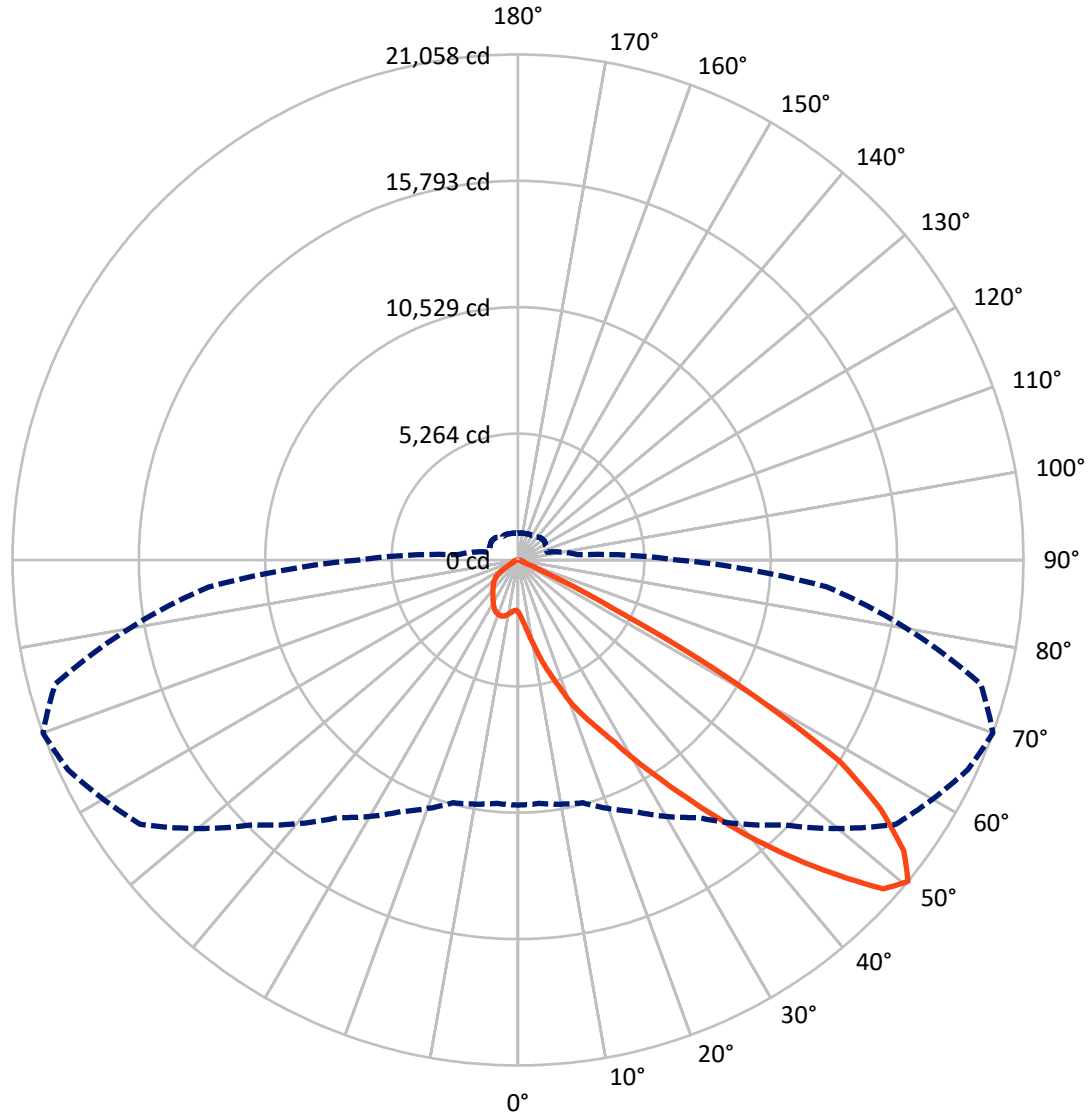
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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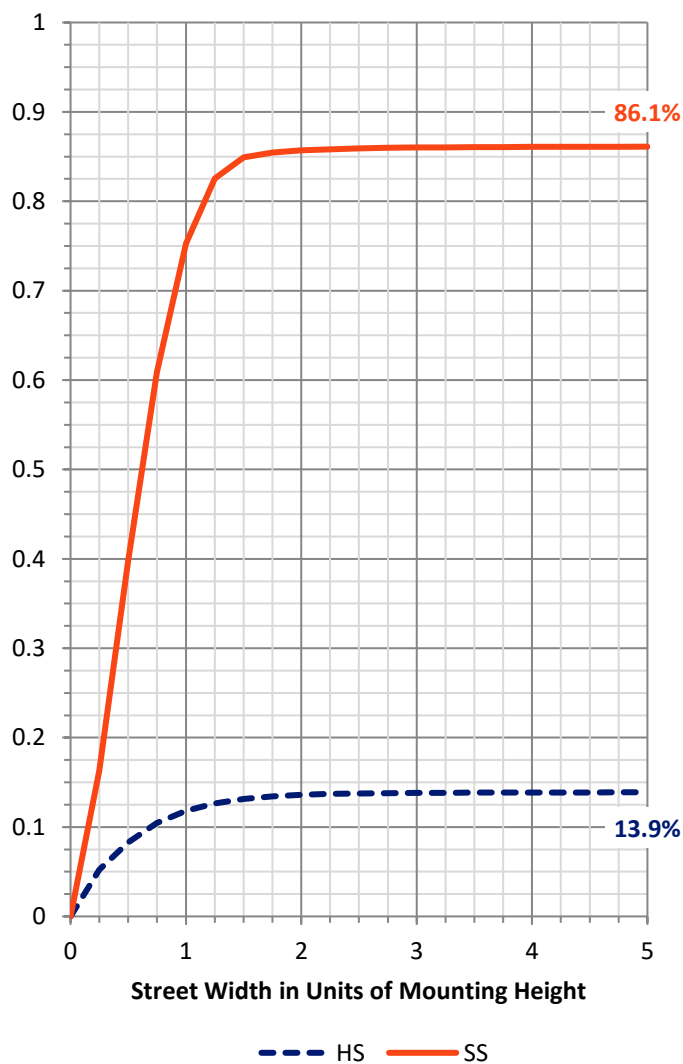
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2908.9	0.0	2908.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	17920.1	0.0	17920.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	20829.0	0.0	20829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.6	1.3
10°-20°	1213.6	5.8
20°-30°	2545.8	12.2
30°-40°	4388.2	21.1
40°-50°	6413.3	30.8
50°-60°	4994.9	24.0
60°-70°	846.3	4.1
70°-80°	116.3	0.6
80°-90°	30.1	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°	20829.0	100.0
0°-180°	20829.0	100.0

Coefficient of Utilization



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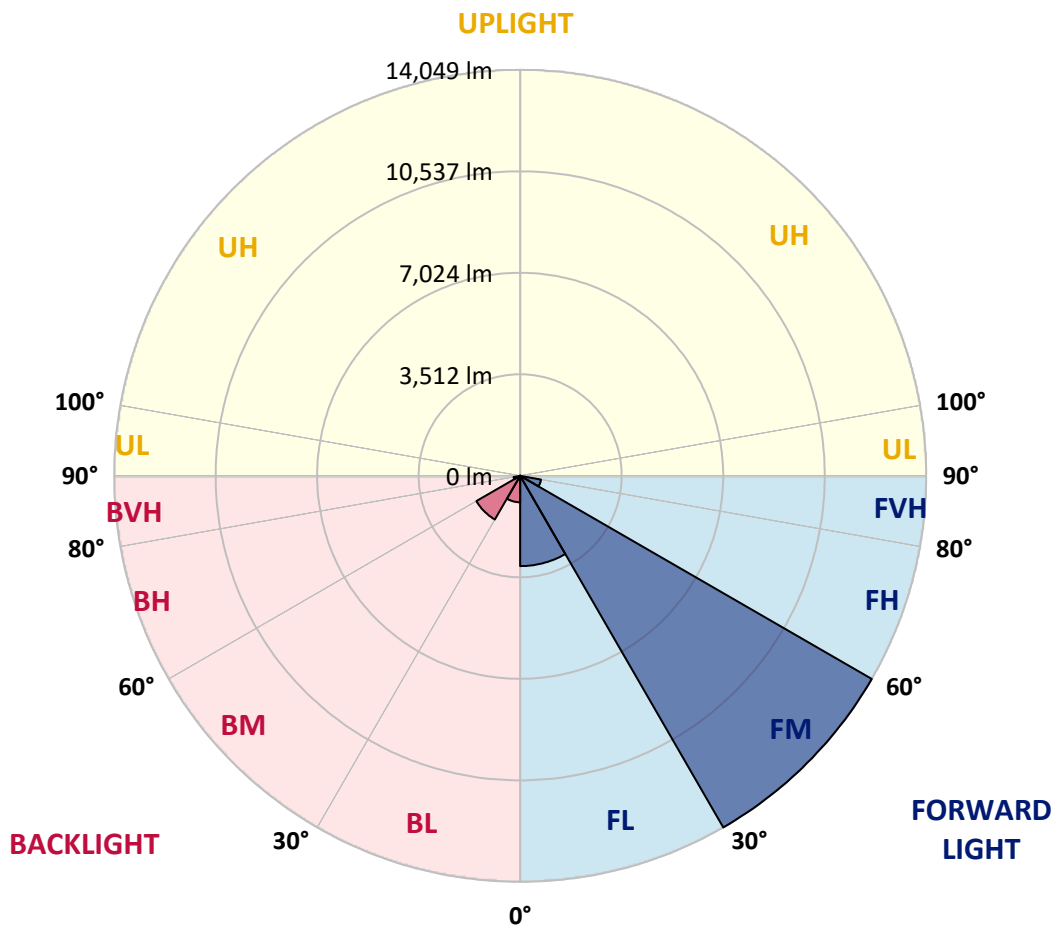
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3124.6	15.0			
FM (30°-60°)	14048.8	67.4			
FH (60°-80°)	732.8	3.5			G1/1800
FVH (80°-90°)	13.9	0.1			G1/100
BL (0°-30°)	915.4	4.4	B2/1000		
BM (30°-60°)	1747.6	8.4	B2/2500		
BH (60°-80°)	229.8	1.1	B1/500		G1/500
BVH (80°-90°)	16.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5
2.5°	2825.3	2804.7	2760.2	2678.0	2643.8	2561.6	2513.6	2421.2	2362.9	2297.9	2226.0
5°	3979.3	3873.2	3808.1	3715.7	3445.1	3277.3	2999.9	2763.6	2654.0	2534.2	2369.8
7.5°	5171.1	5102.6	5013.6	4814.9	4630.0	4280.7	3804.7	3284.2	3061.6	2856.1	2530.8
10°	6157.4	5965.6	5955.3	5808.1	5606.0	5188.2	4616.3	3969.1	3571.8	3270.5	2760.2
12.5°	6845.7	6671.0	6749.8	6732.7	6544.3	6160.8	5499.8	4643.7	4229.3	3760.2	2996.5
15°	7472.4	7400.5	7376.5	7356.0	7280.6	6996.4	6403.9	5465.6	4866.3	4301.3	3263.6
17.5°	8085.4	7900.5	7989.5	8006.6	7999.8	7742.9	7188.2	6246.4	5540.9	4873.2	3544.4
20°	8629.9	8647.0	8527.2	8503.2	8482.6	8472.4	7931.3	7020.4	6369.7	5472.5	3910.9
22.5°	9328.5	9208.6	9314.8	9246.3	9112.8	9030.6	8616.2	7705.3	7088.8	6195.0	4284.1
25°	10153.8	10249.7	9999.7	9972.3	9825.1	9540.8	9167.6	8472.4	7780.6	6866.2	4688.2
27.5°	11170.9	11003.1	10938.1	10787.4	10520.3	10400.4	9962.1	9263.4	8616.2	7571.7	5078.6
30°	12044.2	11999.7	11674.3	11496.3	11263.4	11260.0	10647.0	10335.3	9705.2	8677.8	5616.3
32.5°	12756.5	12561.3	12441.4	12318.2	12129.8	12181.2	11664.1	11499.7	10866.1	9705.2	6249.8
35°	13232.5	13092.1	13020.2	12831.8	12777.0	13006.5	12790.7	12722.2	12201.7	11150.4	6993.0
37.5°	13383.2	13427.7	13414.0	13177.7	13294.2	13914.0	14191.4	14013.3	13739.3	12674.3	7797.7
40°	13516.7	13547.6	13479.1	13756.5	14088.6	14794.1	15797.5	15503.0	15400.3	14218.8	8917.6
42.5°	13592.1	13568.1	13568.1	14047.6	14551.0	15968.7	17348.8	17153.6	17074.9	15862.6	10212.0
45°	13266.8	13033.9	13283.9	13934.5	14948.2	16547.5	18588.5	18859.1	18746.1	17818.0	11725.7
47.5°	12051.0	12194.9	12335.3	13205.1	14465.4	16369.4	19348.8	20270.0	20478.9	19461.8	12718.8
50°	10212.0	10181.2	10472.3	11568.2	13099.0	15602.3	19201.5	20677.5	21057.6	19954.9	12927.7
52.5°	7427.9	7653.9	7969.0	9058.0	10873.0	13616.1	17300.9	19626.2	20133.0	19348.8	12790.7
55°	4325.2	4075.2	4784.1	5705.3	7417.6	10270.3	14626.3	17396.8	18335.1	18246.1	12099.0
57.5°	1732.8	1678.0	1921.2	2589.0	3869.8	6366.3	10636.7	14294.1	15797.5	16711.9	10633.3
60°	760.3	743.1	873.3	1054.8	1582.1	2934.8	5818.3	8890.2	10458.6	11677.8	7318.3
62.5°	547.9	541.1	606.1	671.2	835.6	1277.4	2445.1	3582.1	4465.6	5393.7	3277.3
65°	441.8	458.9	503.4	537.7	616.4	708.9	863.0	996.5	1222.6	1267.1	722.6
67.5°	359.6	373.3	414.4	452.0	465.7	383.6	397.2	349.3	349.3	311.6	250.0
70°	263.7	267.1	315.1	359.6	287.7	154.1	270.5	270.5	243.1	232.9	212.3
72.5°	195.2	198.6	236.3	222.6	113.0	95.9	198.6	219.2	198.6	188.4	171.2
75°	143.8	147.3	123.3	51.4	47.9	61.6	116.4	150.7	143.8	140.4	130.1
77.5°	27.4	20.5	17.1	24.0	34.2	51.4	75.3	92.5	95.9	102.7	95.9
80°	3.4	3.4	10.3	20.5	37.7	54.8	78.8	89.0	92.5	95.9	89.0
82.5°	0.0	3.4	10.3	20.5	37.7	51.4	68.5	78.8	85.6	89.0	85.6
85°	0.0	3.4	6.8	17.1	30.8	37.7	34.2	24.0	20.5	24.0	17.1
87.5°	0.0	0.0	3.4	3.4	6.8	6.8	6.8	6.8	6.8	6.8	6.8
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°	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5
2.5°	2184.9	2171.2	2123.2	2071.9	2027.3	2047.9	2027.3	2010.2	2017.1	2010.2	2003.4
5°	2304.7	2243.1	2140.4	2095.8	2058.2	2054.7	2044.5	2041.0	2044.5	2044.5	2013.6
7.5°	2417.7	2318.4	2208.8	2160.9	2116.4	2119.8	2095.8	2095.8	2092.4	2075.3	2068.4
10°	2589.0	2455.4	2315.0	2229.4	2174.6	2164.3	2140.4	2116.4	2116.4	2116.4	2082.1
12.5°	2777.3	2609.5	2417.7	2318.4	2253.4	2202.0	2164.3	2157.5	2119.8	2113.0	2095.8
15°	2941.7	2729.4	2486.2	2349.2	2267.1	2198.6	2140.4	2102.7	2085.6	2075.3	2061.6
17.5°	3102.7	2832.1	2523.9	2349.2	2260.2	2181.4	2119.8	2085.6	2044.5	2051.3	2023.9
20°	3318.4	2941.7	2534.2	2304.7	2195.1	2119.8	2037.6	2020.5	1996.5	1976.0	1982.8
22.5°	3527.3	3020.5	2503.4	2249.9	2092.4	2003.4	1962.3	1941.7	1931.5	1914.3	1890.4
25°	3715.7	3106.1	2455.4	2150.6	1982.8	1917.8	1880.1	1876.7	1852.7	1852.7	1808.2
27.5°	3907.4	3136.9	2373.2	2034.2	1886.9	1849.3	1832.1	1825.3	1815.0	1791.0	1760.2
30°	4126.6	3147.2	2253.4	1914.3	1801.3	1760.2	1784.2	1801.3	1756.8	1712.3	1726.0
32.5°	4308.1	3123.2	2109.5	1801.3	1739.7	1719.1	1767.1	1784.2	1732.8	1684.9	1660.9
35°	4527.3	3065.0	1969.1	1712.3	1678.0	1719.1	1760.2	1760.2	1657.5	1599.3	1585.6
37.5°	4859.5	2999.9	1839.0	1636.9	1613.0	1698.6	1753.4	1715.7	1554.8	1482.8	1465.7
40°	5215.6	2958.8	1712.3	1561.6	1578.7	1664.3	1695.2	1578.7	1414.3	1369.8	1356.1
42.5°	5732.7	2876.6	1599.3	1496.5	1547.9	1616.4	1616.4	1407.5	1345.9	1321.9	1318.5
45°	6376.5	2818.4	1500.0	1441.7	1503.4	1520.5	1465.7	1318.5	1273.9	1267.1	1270.5
47.5°	6691.6	2705.4	1397.2	1376.7	1421.2	1424.6	1280.8	1246.5	1208.9	1198.6	1191.7
50°	6643.7	2503.4	1263.7	1291.1	1352.7	1318.5	1167.8	1174.6	1140.4	1137.0	1119.8
52.5°	6308.0	2184.9	1130.1	1195.2	1263.7	1164.4	1075.3	1068.5	1068.5	1023.9	1006.8
55°	5592.3	1760.2	969.2	1051.3	1133.5	979.4	955.5	948.6	931.5	890.4	880.1
57.5°	4428.0	1291.1	729.4	818.5	962.3	832.2	828.7	797.9	753.4	722.6	722.6
60°	2633.5	743.1	458.9	500.0	637.0	674.6	750.0	736.3	660.9	613.0	599.3
62.5°	1202.0	383.6	291.1	297.9	342.5	438.3	589.0	681.5	575.3	493.1	486.3
65°	404.1	284.2	239.7	229.4	236.3	263.7	352.7	482.9	458.9	380.1	366.4
67.5°	246.6	253.4	226.0	208.9	208.9	205.5	202.0	219.2	270.5	263.7	267.1
70°	212.3	232.9	208.9	188.4	181.5	171.2	143.8	119.9	102.7	119.9	126.7
72.5°	171.2	184.9	178.1	161.0	143.8	130.1	102.7	78.8	58.2	51.4	51.4
75°	126.7	137.0	143.8	123.3	109.6	92.5	75.3	51.4	30.8	20.5	20.5
77.5°	92.5	102.7	106.2	95.9	82.2	65.1	47.9	34.2	17.1	6.8	6.8
80°	78.8	92.5	102.7	95.9	85.6	61.6	44.5	24.0	13.7	3.4	3.4
82.5°	75.3	92.5	102.7	92.5	82.2	58.2	44.5	27.4	10.3	3.4	3.4
85°	17.1	24.0	30.8	37.7	44.5	44.5	34.2	20.5	10.3	3.4	3.4
87.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	3.4	3.4	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)