

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: P455095

Luminaire Tested: **GALN-SA6B-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31030 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

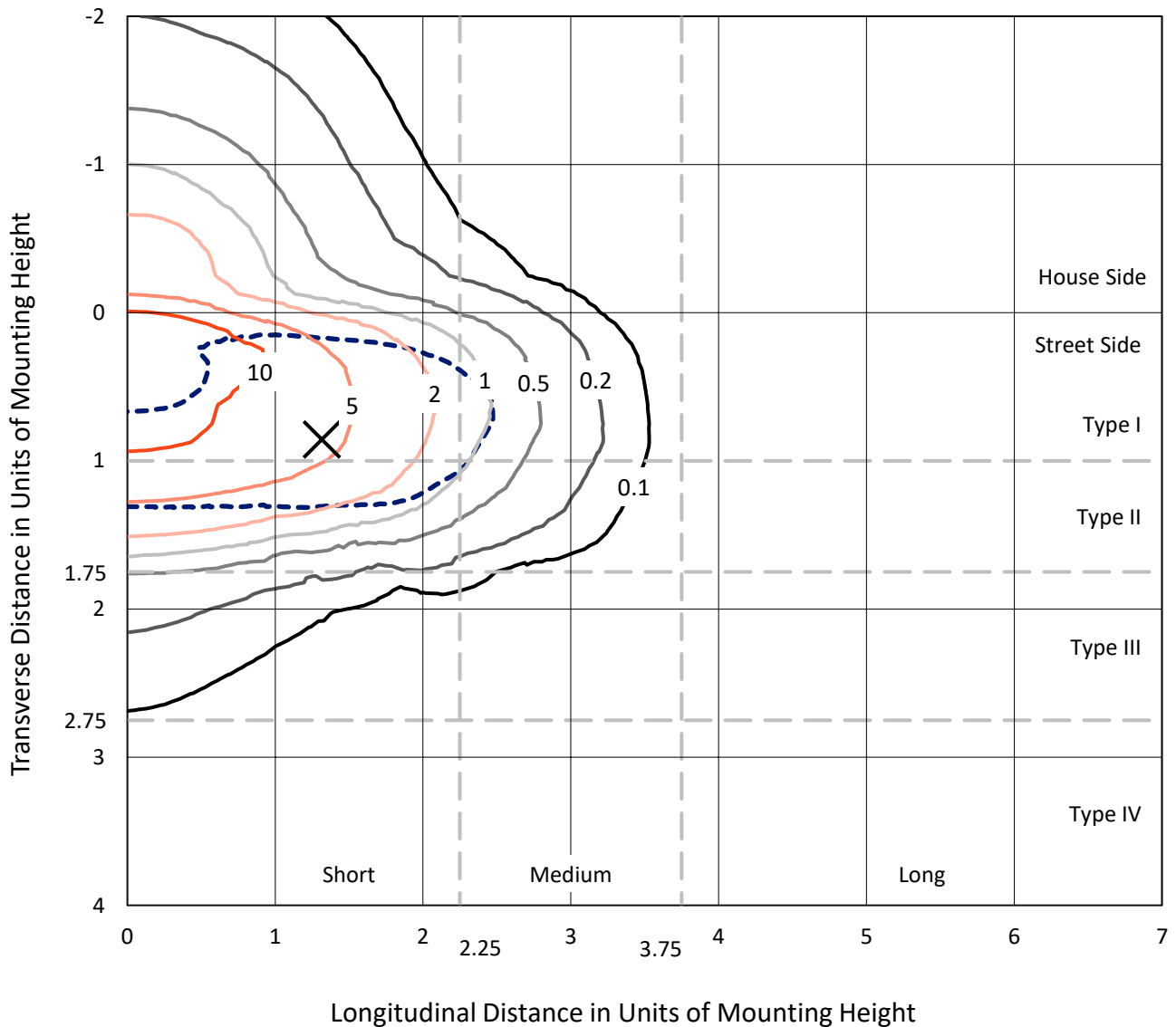
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455095
 CATALOG NUMBER: GALN-SA6B-730-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

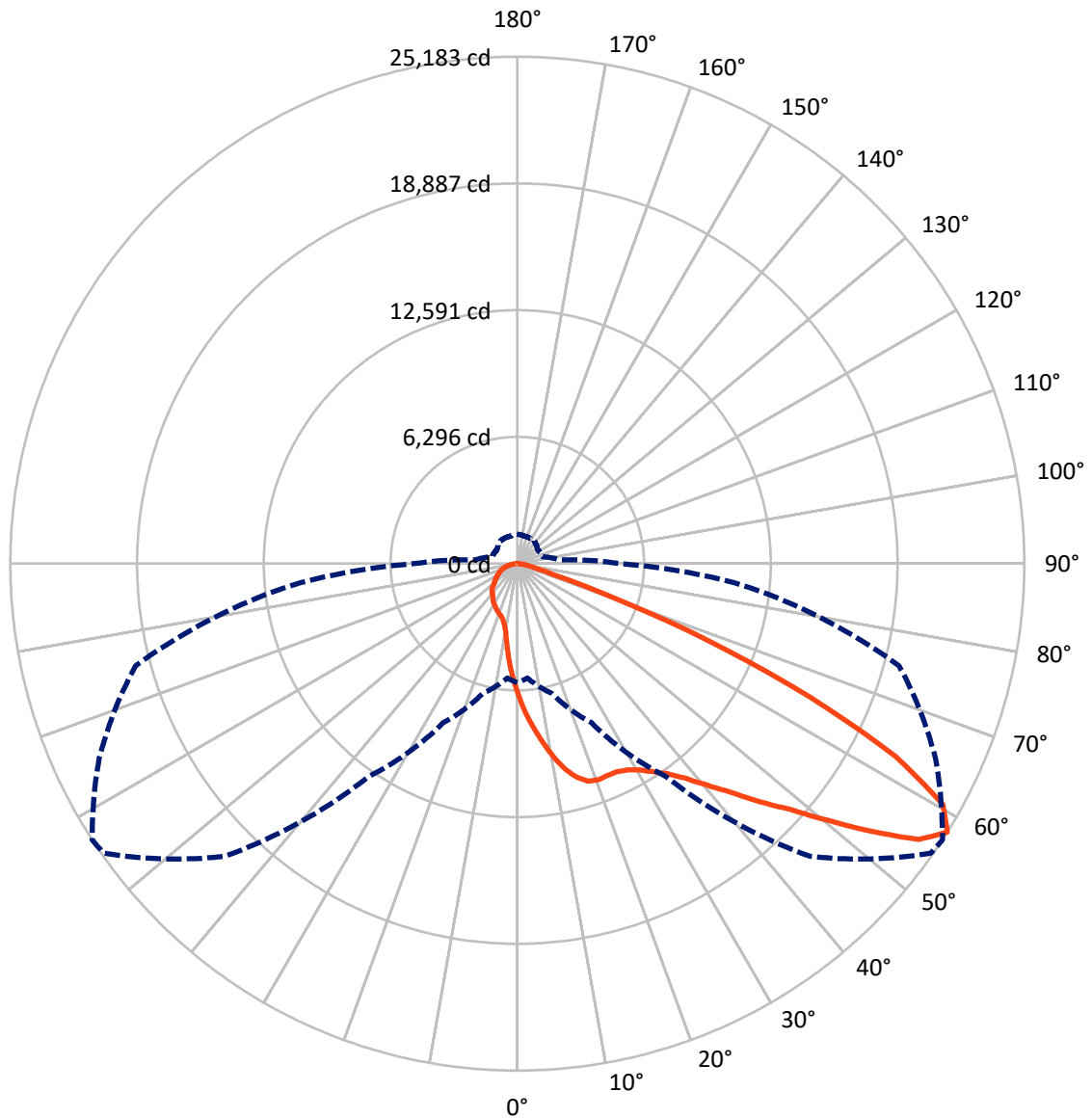
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - N/A

REPORT NUMBER: P455095
CATALOG NUMBER: GALN-SA6B-730-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P455095

CATALOG NUMBER: GALN-SA6B-730-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4718.8	0.0	4718.8
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	26311.2	0.0	26311.2
	% Fixture	84.8	0.0	84.8
Total	Lumens	31030.0	0.0	31030.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	626.5	2.0
10°-20°	1846.5	6.0
20°-30°	3066.1	9.9
30°-40°	4618.4	14.9
40°-50°	6934.1	22.3
50°-60°	7772.3	25.0
60°-70°	4548.7	14.7
70°-80°	1345.5	4.3
80°-90°	272.0	0.9
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°	31030.0	100.0
0°-180°	31030.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455095

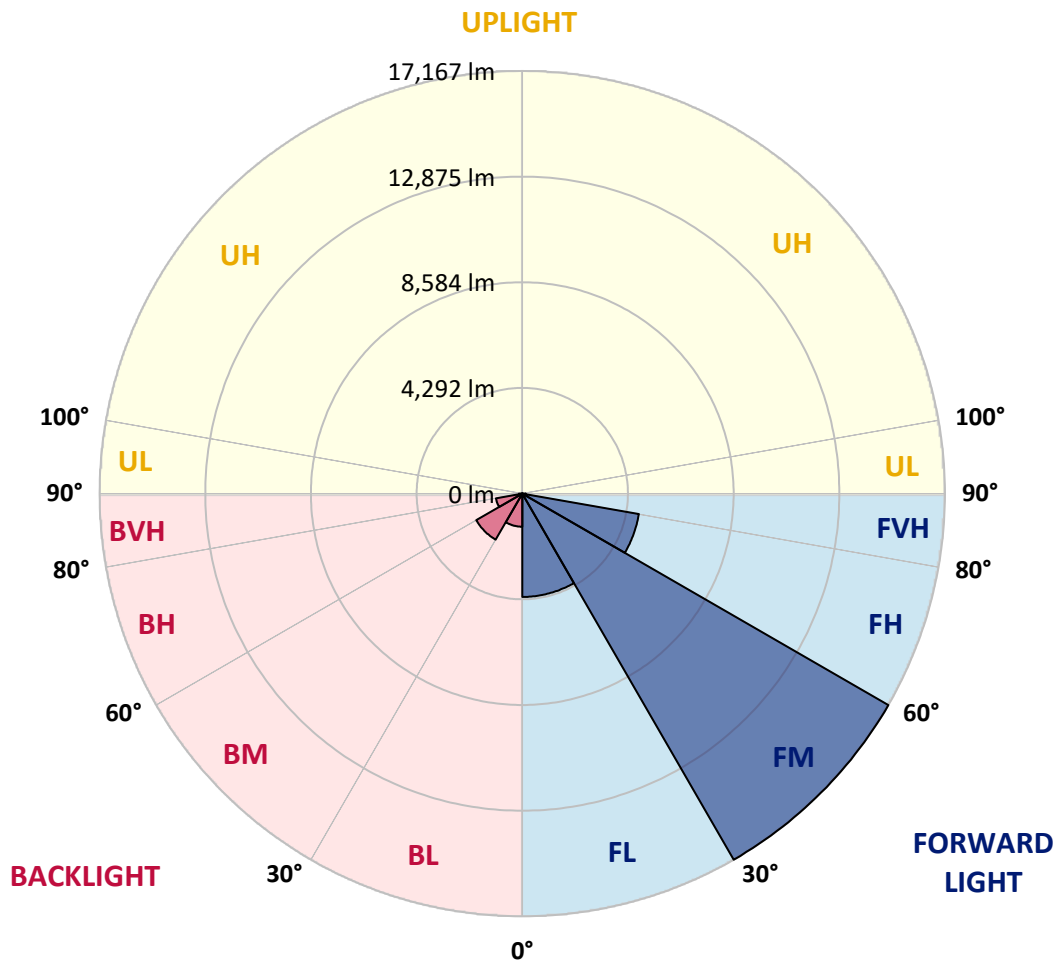
CATALOG NUMBER: GALN-SA6B-730-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4194.5	13.5			
FM	(30°-60°)	17167.1	55.3			
FH	(60°-80°)	4808.4	15.5			G2/5000
FVH	(80°-90°)	141.1	0.5			G2/225
BL	(0°-30°)	1344.5	4.3	B3/2500		
BM	(30°-60°)	2157.6	7.0	B2/2500		
BH	(60°-80°)	1085.8	3.5	B3/2500		G3/2500
BVH	(80°-90°)	130.9	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P455095

CATALOG NUMBER: GALN-SA6B-730-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6519.0	6519.0	6519.0	6519.0	6519.0	6519.0	6519.0	6519.0	6519.0	6519.0	6519.0
2.5°	8100.4	8012.1	7942.4	7881.3	7801.5	7585.7	7370.0	7366.6	7195.1	6930.1	6658.3
5°	9420.2	9301.3	9316.6	9126.3	8936.1	8623.6	8166.6	8142.9	7777.7	7281.7	6777.2
7.5°	10279.6	10281.3	10233.8	10125.1	9919.6	9564.6	9046.5	8929.3	8421.4	7669.0	6913.1
10°	10235.5	10281.3	10361.2	10454.6	10517.4	10342.5	9870.3	9727.6	9066.9	8137.8	7064.3
12.5°	9647.8	9719.1	9832.9	10067.3	10446.1	10734.9	10573.5	10458.0	9814.2	8604.9	7230.7
15°	9280.9	9323.4	9386.2	9544.2	9951.8	10643.1	11061.0	10999.8	10519.1	9133.1	7417.6
17.5°	9168.8	9211.3	9231.6	9328.5	9618.9	10327.2	11252.9	11361.6	11144.2	9618.9	7606.1
20°	9280.9	9301.3	9301.3	9359.0	9586.6	10142.1	11244.4	11463.5	11657.2	10201.5	7782.8
22.5°	9574.7	9583.2	9571.3	9591.7	9761.6	10193.0	11164.6	11436.4	12071.6	10695.8	7920.4
25°	10052.0	10065.6	9987.5	9939.9	10063.9	10417.2	11208.8	11458.4	12396.0	11168.0	8012.1
27.5°	10593.9	10610.9	10515.7	10405.3	10463.1	10694.1	11382.0	11606.2	12638.9	11633.4	8069.8
30°	11258.0	11264.8	11105.1	10972.7	10935.3	11106.8	11677.6	11886.5	12941.3	12182.0	8156.5
32.5°	11937.4	11988.4	11782.9	11596.0	11533.2	11585.8	12114.1	12316.2	13301.4	12771.4	8295.7
35°	12861.4	12869.9	12623.6	12396.0	12188.8	12256.8	12672.9	12819.0	13799.0	13452.5	8492.8
37.5°	14014.8	14092.9	13753.2	13328.5	13073.8	12975.2	13348.9	13508.6	14497.2	14288.2	8790.0
40°	15295.5	15324.3	15033.9	14768.9	14303.5	14018.2	14276.3	14449.6	15358.3	15285.3	9134.8
42.5°	16100.6	16163.4	16185.5	16158.3	15808.4	15329.4	15428.0	15509.5	16377.5	16221.2	9488.1
45°	16372.4	16465.8	16781.7	17450.9	17488.3	17016.1	16786.8	16864.9	17488.3	17165.6	9826.1
47.5°	15922.2	16081.9	16664.5	18036.9	19064.6	19100.2	18408.9	18237.4	18500.6	17948.6	10070.7
50°	14758.7	14792.7	15684.4	17671.7	19803.4	21092.6	20377.5	20058.2	19462.0	18527.8	10238.9
52.5°	12958.3	12997.3	13744.7	15974.9	19348.2	22485.4	22680.8	22110.1	20438.7	18977.9	10349.3
55°	9618.9	9844.8	10666.9	12822.4	17191.1	22354.7	24511.8	24187.4	21619.2	19334.6	10522.5
57.5°	5914.4	5707.1	6682.1	8723.8	12929.4	20557.6	25077.4	25182.8	22918.6	19633.6	10813.0
60°	2721.1	2761.8	3164.4	4499.5	7881.3	16081.9	23620.1	24285.9	23637.1	19623.4	10886.0
62.5°	1875.2	1837.8	1735.9	1975.4	3594.1	10170.9	19951.2	21079.0	22196.7	19013.6	10595.6
65°	1676.5	1639.1	1442.1	1375.8	1651.0	4433.2	14503.9	15927.3	18689.2	17474.7	9872.0
67.5°	1566.1	1515.1	1311.3	1182.2	1178.8	1764.8	8552.2	10266.1	13861.9	14774.0	8553.9
70°	1450.6	1409.8	1207.7	1065.0	1003.8	1109.2	3758.9	4920.7	9000.6	10646.5	6663.4
72.5°	1335.1	1287.5	1105.8	952.9	873.1	830.6	1440.4	1873.5	5085.5	6383.2	4085.0
75°	1166.9	1143.1	988.6	862.9	776.2	670.9	913.8	1042.9	2432.3	2931.7	2050.2
77.5°	1020.8	995.4	878.2	754.2	691.3	545.2	648.8	708.3	1025.9	1189.0	925.7
80°	747.4	772.8	740.6	665.8	616.6	428.0	436.5	485.8	609.8	674.3	565.6
82.5°	473.9	521.5	570.7	513.0	467.1	338.0	302.3	321.0	416.1	441.6	251.4
85°	198.7	202.1	331.2	312.5	266.7	200.4	181.7	191.9	222.5	232.7	117.2
87.5°	76.4	74.7	117.2	108.7	83.2	57.8	57.8	64.5	88.3	81.5	37.4
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: P455095
 CATALOG NUMBER: GALN-SA6B-730-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6519.0	6519.0	6519.0	6519.0	6519.0	6519.0	6519.0	6519.0	6519.0	6519.0	6519.0
2.5°	6541.1	6420.5	6181.0	5883.8	5666.4	5421.8	5206.1	5051.5	4993.7	4966.6	4915.6
5°	6536.0	6298.2	5802.3	5282.5	4864.7	4436.6	4074.8	3840.4	3820.0	3663.8	3648.5
7.5°	6537.7	6174.2	5384.4	4620.1	3983.1	3544.9	3245.9	3167.8	3074.4	3050.6	3062.5
10°	6542.8	6016.3	4936.0	3964.4	3347.8	3060.8	2948.7	2918.1	2921.5	2931.7	2933.4
12.5°	6549.6	5863.4	4470.6	3466.7	2991.2	2872.3	2860.4	2887.5	2916.4	2938.5	2943.6
15°	6558.1	5688.5	4017.1	3065.9	2812.8	2802.6	2841.7	2887.5	2928.3	2960.6	2965.7
17.5°	6547.9	5484.6	3636.6	2819.6	2714.3	2763.5	2828.1	2885.8	2923.2	2953.8	2957.2
20°	6524.1	5257.0	3269.7	2646.3	2653.1	2733.0	2802.6	2857.0	2897.7	2913.0	2924.9
22.5°	6432.4	4985.3	2950.4	2512.2	2580.1	2690.5	2773.7	2806.0	2760.1	2727.9	2736.4
25°	6276.2	4632.0	2653.1	2403.5	2513.9	2631.1	2716.0	2637.9	2600.5	2586.9	2593.7
27.5°	6080.8	4244.7	2428.9	2289.6	2428.9	2564.8	2541.0	2527.4	2510.5	2488.4	2493.5
30°	5870.2	3865.9	2238.7	2201.3	2337.2	2415.3	2425.5	2447.6	2428.9	2395.0	2408.5
32.5°	5674.9	3509.2	2094.3	2126.6	2272.7	2260.8	2337.2	2362.7	2276.1	2162.3	2167.4
35°	5508.4	3178.0	1985.6	2053.6	2162.3	2167.4	2243.8	2155.5	2062.0	2007.7	2011.1
37.5°	5382.7	2919.8	1914.3	1990.7	2021.3	2085.8	2045.1	1999.2	1987.3	1949.9	1951.6
40°	5308.0	2693.9	1868.4	1941.4	1936.4	1980.5	1849.7	1895.6	1912.6	1900.7	1902.4
42.5°	5233.2	2534.2	1820.8	1873.5	1871.8	1785.2	1756.3	1795.4	1839.5	1844.6	1841.2
45°	5173.8	2410.2	1771.6	1769.9	1803.9	1668.0	1659.5	1683.3	1746.1	1776.7	1775.0
47.5°	5107.5	2306.6	1696.9	1649.3	1659.5	1594.9	1581.4	1591.5	1668.0	1717.2	1730.8
50°	5024.3	2203.0	1603.4	1538.9	1496.4	1527.0	1530.4	1532.1	1608.5	1664.6	1676.5
52.5°	4958.1	2124.9	1496.4	1448.9	1397.9	1465.9	1491.3	1494.7	1540.6	1586.4	1594.9
55°	4997.1	2080.7	1391.1	1357.1	1311.3	1403.0	1452.3	1459.1	1469.2	1503.2	1508.3
57.5°	5114.3	2090.9	1306.2	1262.0	1228.1	1328.3	1411.5	1416.6	1409.8	1450.6	1457.4
60°	5150.0	2085.8	1243.3	1156.7	1136.3	1248.4	1352.0	1362.2	1360.5	1420.0	1431.9
62.5°	5000.5	2021.3	1180.5	1068.4	1054.8	1166.9	1268.8	1309.6	1318.1	1403.0	1418.3
65°	4648.9	1888.8	1097.3	975.0	975.0	1080.3	1189.0	1245.0	1268.8	1382.6	1399.6
67.5°	4185.2	1732.5	1012.3	895.1	891.7	997.1	1104.1	1161.8	1199.2	1353.7	1363.9
70°	3473.5	1521.9	907.0	808.5	808.5	903.6	1000.4	1070.1	1124.4	1299.4	1299.4
72.5°	2379.7	1265.4	779.6	710.0	711.7	800.0	898.5	976.7	1041.2	1190.7	1194.1
75°	1504.9	988.6	640.4	604.7	611.5	694.7	796.6	878.2	1007.2	1177.1	1182.2
77.5°	800.0	694.7	509.6	501.1	509.6	586.0	699.8	811.9	1010.6	1020.8	1003.8
80°	518.1	492.6	402.6	385.6	389.0	472.2	623.4	771.1	811.9	822.1	784.7
82.5°	282.0	312.5	285.4	268.4	268.4	368.6	531.6	613.2	582.6	484.1	462.0
85°	120.6	146.1	147.8	129.1	124.0	227.6	356.7	334.6	310.8	297.2	293.8
87.5°	34.0	47.6	47.6	35.7	27.2	62.8	71.3	20.4	0.0	1.7	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

(END OF REPORT)