

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: P455791

Luminaire Tested: **GALN-SA7A-730-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455791  
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-SA7A-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29293 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

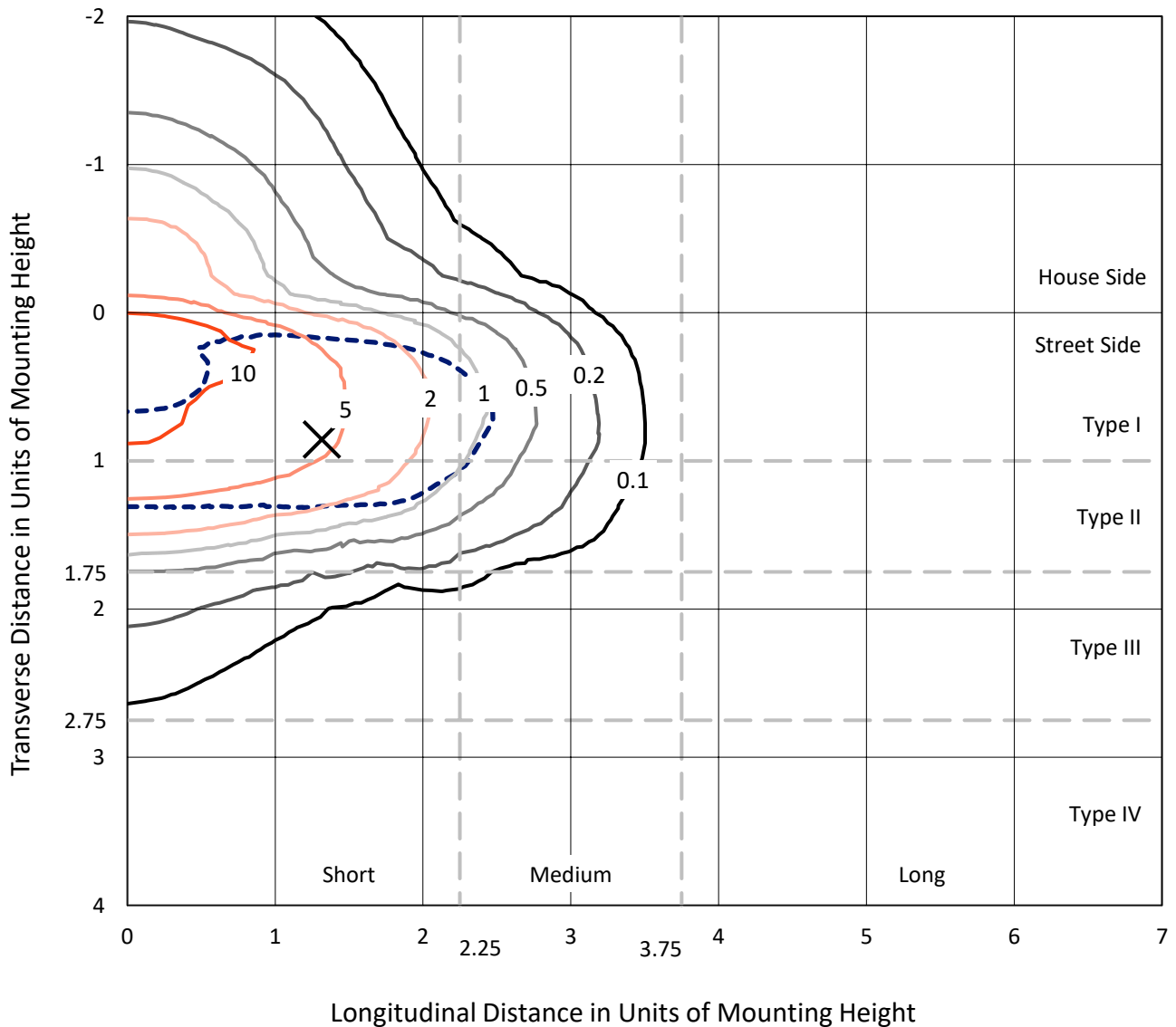
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

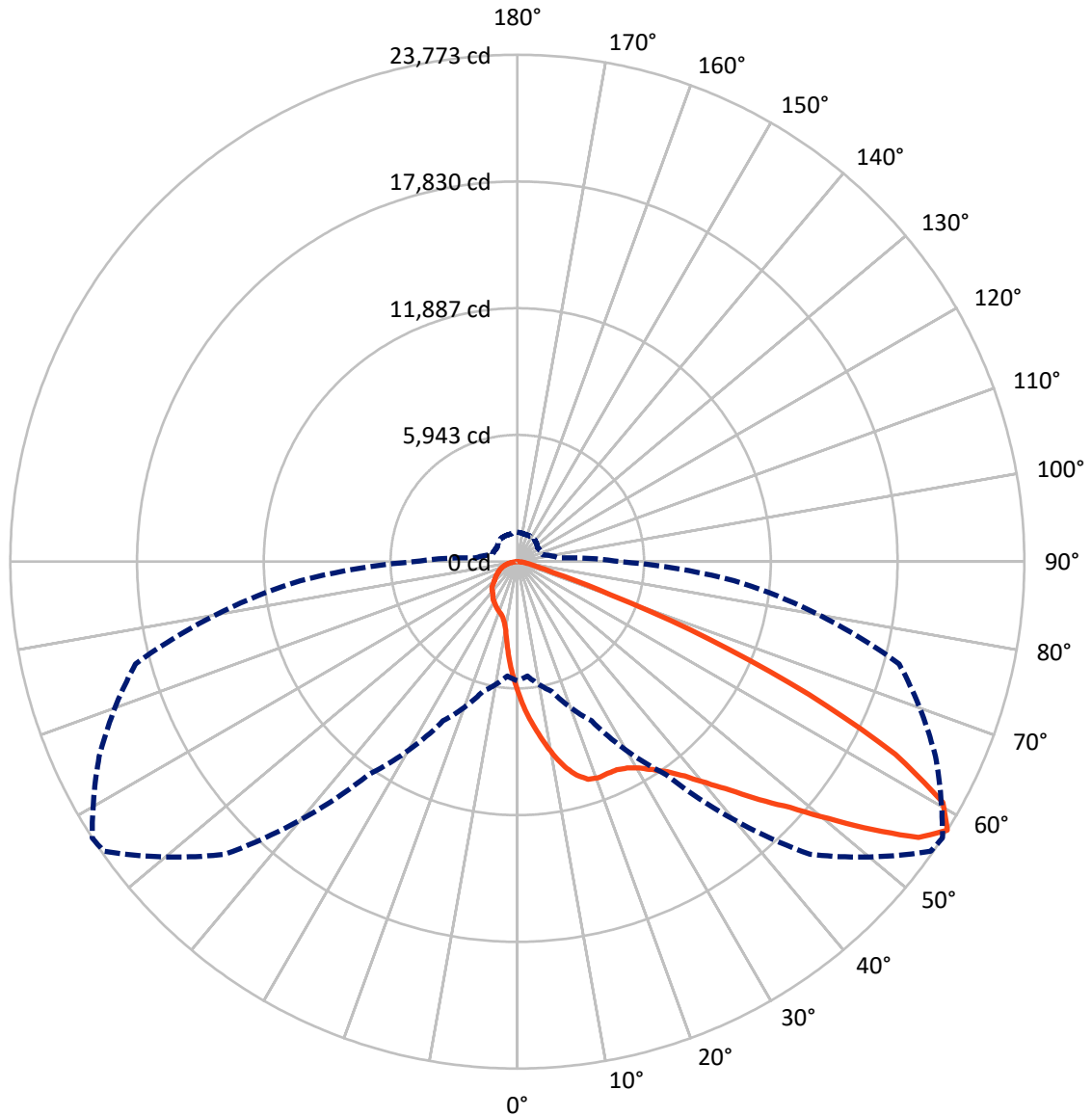
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4454.6	0.0	4454.6
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	24838.4	0.0	24838.4
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	29293.0	0.0	29293.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	591.5	2.0
10°-20°	1743.1	6.0
20°-30°	2894.4	9.9
30°-40°	4359.9	14.9
40°-50°	6545.9	22.3
50°-60°	7337.2	25.0
60°-70°	4294.1	14.7
70°-80°	1270.2	4.3
80°-90°	256.7	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°	29293.0	100.0
0°-180°	29293.0	100.0

**Coefficient of Utilization**



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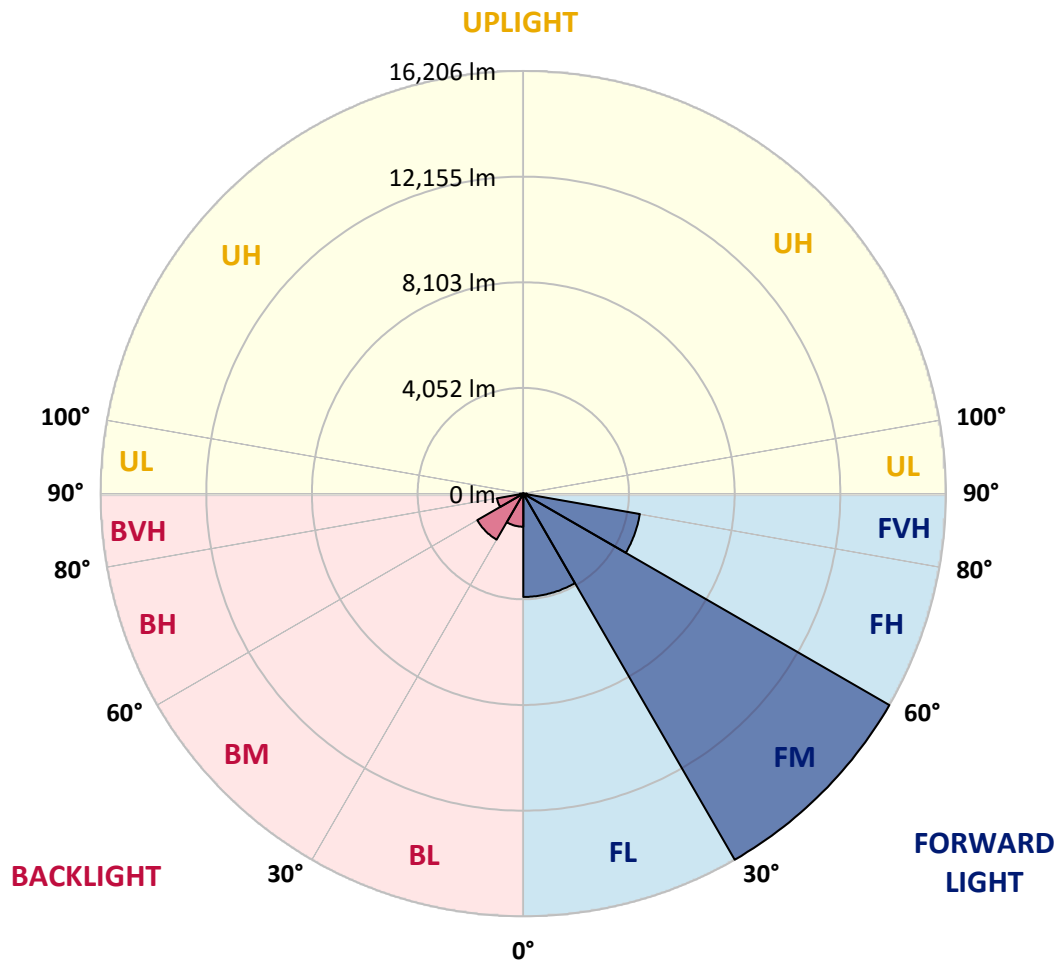
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3959.7	13.5			
FM	(30°-60°)	16206.2	55.3			
FH	(60°-80°)	4539.2	15.5			G2/5000
FVH	(80°-90°)	133.2	0.5			G2/225
BL	(0°-30°)	1269.3	4.3	B3/2500		
BM	(30°-60°)	2036.8	7.0	B2/2500		
BH	(60°-80°)	1025.0	3.5	B3/2500		G3/2500
BVH	(80°-90°)	123.5	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6154.1	6154.1	6154.1	6154.1	6154.1	6154.1	6154.1	6154.1	6154.1	6154.1	6154.1
2.5°	7647.0	7563.6	7497.8	7440.1	7364.7	7161.1	6957.5	6954.3	6792.3	6542.2	6285.6
5°	8892.9	8780.6	8795.0	8615.5	8435.9	8140.8	7709.5	7687.0	7342.3	6874.1	6397.9
7.5°	9704.2	9705.8	9660.9	9558.3	9364.3	9029.1	8540.1	8429.5	7950.0	7239.7	6526.1
10°	9662.5	9705.8	9781.2	9869.4	9928.7	9763.5	9317.8	9183.1	8559.3	7682.2	6668.8
12.5°	9107.7	9175.1	9282.5	9503.8	9861.4	10133.9	9981.6	9872.6	9264.9	8123.2	6826.0
15°	8761.4	8801.5	8860.8	9009.9	9394.7	10047.4	10441.8	10384.1	9930.3	8621.9	7002.4
17.5°	8655.5	8695.6	8714.9	8806.3	9080.5	9749.1	10623.0	10725.6	10520.4	9080.5	7180.3
20°	8761.4	8780.6	8780.6	8835.1	9050.0	9574.3	10615.0	10821.8	11004.6	9630.5	7347.1
22.5°	9038.8	9046.8	9035.6	9054.8	9215.2	9622.4	10539.6	10796.2	11395.9	10097.1	7477.0
25°	9489.3	9502.2	9428.4	9383.5	9500.6	9834.1	10581.3	10817.0	11702.1	10542.8	7563.6
27.5°	10000.9	10016.9	9927.1	9822.9	9877.4	10095.5	10744.9	10956.5	11931.4	10982.2	7618.1
30°	10627.8	10634.2	10483.5	10358.4	10323.2	10485.1	11023.9	11221.1	12216.9	11500.1	7699.9
32.5°	11269.2	11317.3	11123.3	10946.9	10887.6	10937.3	11436.0	11626.8	12556.8	12056.5	7831.4
35°	12141.5	12149.5	11917.0	11702.1	11506.5	11570.7	11963.5	12101.4	13026.6	12699.5	8017.4
37.5°	13230.2	13304.0	12983.3	12582.4	12341.9	12248.9	12601.7	12752.4	13685.6	13488.4	8298.0
40°	14439.3	14466.5	14192.3	13942.2	13502.8	13233.5	13477.2	13640.7	14498.6	14429.6	8623.5
42.5°	15199.3	15258.6	15279.5	15253.8	14923.5	14471.3	14564.3	14641.3	15460.7	15313.2	8957.0
45°	15455.9	15544.1	15842.3	16474.1	16509.3	16063.6	15847.1	15920.9	16509.3	16204.7	9276.1
47.5°	15030.9	15181.7	15731.7	17027.3	17997.4	18031.0	17378.4	17216.5	17465.0	16943.9	9507.0
50°	13932.6	13964.6	14806.5	16682.5	18694.9	19911.9	19236.8	18935.4	18372.6	17490.7	9665.7
52.5°	12232.9	12269.8	12975.3	15080.7	18265.1	21226.8	21411.2	20872.4	19294.6	17915.6	9770.0
55°	9080.5	9293.7	10069.8	12104.6	16228.7	21103.3	23139.7	22833.4	20409.0	18252.3	9933.5
57.5°	5583.3	5387.7	6308.1	8235.4	12205.6	19406.8	23673.7	23773.1	21635.6	18534.5	10207.7
60°	2568.8	2607.2	2987.3	4247.6	7440.1	15181.7	22297.9	22926.4	22313.9	18524.9	10276.6
62.5°	1770.2	1735.0	1638.7	1864.8	3392.9	9601.6	18834.4	19899.1	20954.2	17949.3	10002.5
65°	1582.6	1547.4	1361.3	1298.8	1558.6	4185.1	13692.0	15035.8	17643.0	16496.5	9319.4
67.5°	1478.4	1430.3	1237.9	1116.0	1112.8	1666.0	8073.5	9691.4	13085.9	13947.0	8075.1
70°	1369.4	1330.9	1140.1	1005.4	947.7	1047.1	3548.5	4645.3	8496.8	10050.6	6290.4
72.5°	1260.3	1215.4	1043.9	899.5	824.2	784.1	1359.7	1768.6	4800.8	6025.8	3856.3
75°	1101.6	1079.1	933.2	814.6	732.8	633.4	862.7	984.5	2296.2	2767.6	1935.4
77.5°	963.7	939.6	829.0	711.9	652.6	514.7	612.5	668.6	968.5	1122.4	873.9
80°	705.5	729.6	699.1	628.6	582.1	404.1	412.1	458.6	575.6	636.6	534.0
82.5°	447.4	492.3	538.8	484.2	441.0	319.1	285.4	303.1	392.9	416.9	237.3
85°	187.6	190.8	312.7	295.0	251.7	189.2	171.6	181.2	210.1	219.7	110.6
87.5°	72.2	70.6	110.6	102.6	78.6	54.5	54.5	60.9	83.4	77.0	35.3
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°	6154.1	6154.1	6154.1	6154.1	6154.1	6154.1	6154.1	6154.1	6154.1	6154.1	6154.1
2.5°	6175.0	6061.1	5835.0	5554.4	5349.2	5118.3	4914.6	4768.7	4714.2	4688.6	4640.4
5°	6170.2	5945.7	5477.5	4986.8	4592.3	4188.3	3846.7	3625.4	3606.2	3458.7	3444.3
7.5°	6171.8	5828.6	5083.0	4361.4	3760.1	3346.4	3064.2	2990.5	2902.3	2879.8	2891.1
10°	6176.6	5679.5	4659.7	3742.5	3160.4	2889.5	2783.6	2754.8	2758.0	2767.6	2769.2
12.5°	6183.0	5535.2	4220.3	3272.7	2823.7	2711.5	2700.2	2725.9	2753.2	2774.0	2778.8
15°	6191.0	5370.0	3792.2	2894.3	2655.3	2645.7	2682.6	2725.9	2764.4	2794.9	2799.7
17.5°	6181.4	5177.6	3433.0	2661.8	2562.3	2608.8	2669.8	2724.3	2759.6	2788.4	2791.6
20°	6158.9	4962.7	3086.7	2498.2	2504.6	2580.0	2645.7	2697.0	2735.5	2750.0	2761.2
22.5°	6072.3	4706.2	2785.2	2371.5	2435.7	2539.9	2618.5	2648.9	2605.6	2575.2	2583.2
25°	5924.8	4372.7	2504.6	2268.9	2373.1	2483.8	2564.0	2490.2	2454.9	2442.1	2448.5
27.5°	5740.4	4007.1	2293.0	2161.5	2293.0	2421.2	2398.8	2386.0	2369.9	2349.1	2353.9
30°	5541.6	3649.5	2113.4	2078.1	2206.4	2280.1	2289.8	2310.6	2293.0	2260.9	2273.7
32.5°	5357.2	3312.8	1977.1	2007.5	2145.4	2134.2	2206.4	2230.4	2148.7	2041.2	2046.0
35°	5200.1	3000.1	1874.5	1938.6	2041.2	2046.0	2118.2	2034.8	1946.6	1895.3	1898.5
37.5°	5081.4	2756.4	1807.1	1879.3	1908.1	1969.1	1930.6	1887.3	1876.1	1840.8	1842.4
40°	5010.8	2543.1	1763.8	1832.8	1828.0	1869.6	1746.2	1789.5	1805.5	1794.3	1795.9
42.5°	4940.3	2392.4	1718.9	1768.6	1767.0	1685.2	1658.0	1694.9	1736.6	1741.4	1738.2
45°	4884.2	2275.3	1672.4	1670.8	1702.9	1574.6	1566.6	1589.0	1648.4	1677.2	1675.6
47.5°	4821.6	2177.5	1601.9	1557.0	1566.6	1505.7	1492.8	1502.5	1574.6	1621.1	1633.9
50°	4743.1	2079.7	1513.7	1452.7	1412.7	1441.5	1444.7	1446.3	1518.5	1571.4	1582.6
52.5°	4680.5	2005.9	1412.7	1367.8	1319.7	1383.8	1407.8	1411.1	1454.3	1497.6	1505.7
55°	4717.4	1964.3	1313.2	1281.2	1237.9	1324.5	1371.0	1377.4	1387.0	1419.1	1423.9
57.5°	4828.1	1973.9	1233.1	1191.4	1159.3	1253.9	1332.5	1337.3	1330.9	1369.4	1375.8
60°	4861.7	1969.1	1173.7	1092.0	1072.7	1178.6	1276.4	1286.0	1284.4	1340.5	1351.7
62.5°	4720.6	1908.1	1114.4	1008.6	995.8	1101.6	1197.8	1236.3	1244.3	1324.5	1338.9
65°	4388.7	1783.1	1035.8	920.4	920.4	1019.8	1122.4	1175.3	1197.8	1305.2	1321.3
67.5°	3951.0	1635.5	955.7	845.0	841.8	941.2	1042.3	1096.8	1132.1	1278.0	1287.6
70°	3279.1	1436.7	856.3	763.3	763.3	853.0	944.4	1010.2	1061.5	1226.7	1226.7
72.5°	2246.5	1194.6	736.0	670.3	671.9	755.2	848.2	922.0	982.9	1124.0	1127.2
75°	1420.7	933.2	604.5	570.8	577.2	655.8	752.0	829.0	950.9	1111.2	1116.0
77.5°	755.2	655.8	481.0	473.0	481.0	553.2	660.6	766.5	954.1	963.7	947.7
80°	489.1	465.0	380.0	364.0	367.2	445.8	588.5	728.0	766.5	776.1	740.8
82.5°	266.2	295.0	269.4	253.3	253.3	348.0	501.9	578.9	550.0	457.0	436.1
85°	113.8	137.9	139.5	121.9	117.1	214.9	336.7	315.9	293.4	280.6	277.4
87.5°	32.1	44.9	44.9	33.7	25.7	59.3	67.3	19.2	0.0	1.6	3.2
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)