

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: P454370

Luminaire Tested: **GALN-SA5C-727-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454370  
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-SA5C-727-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29733 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

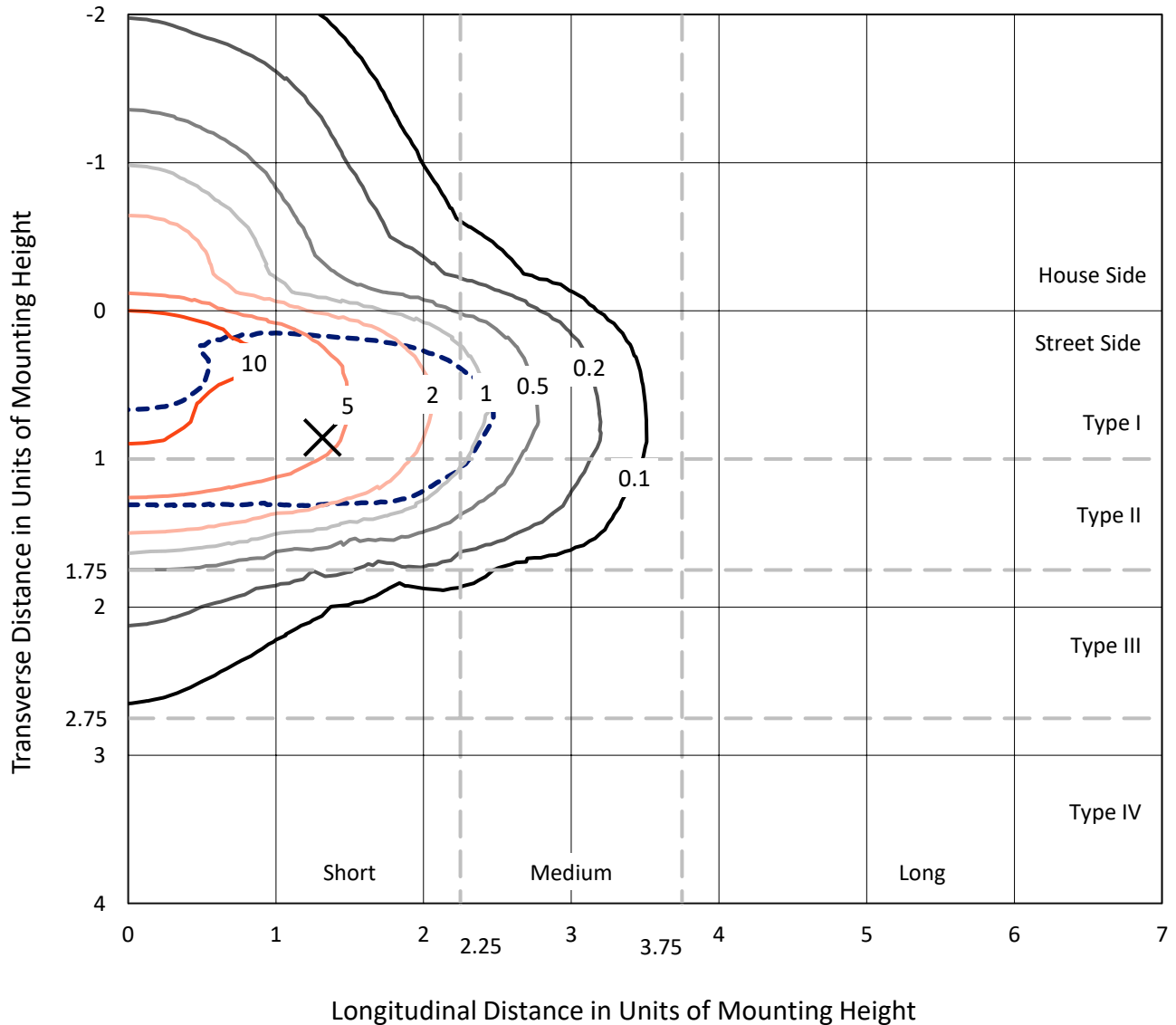
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

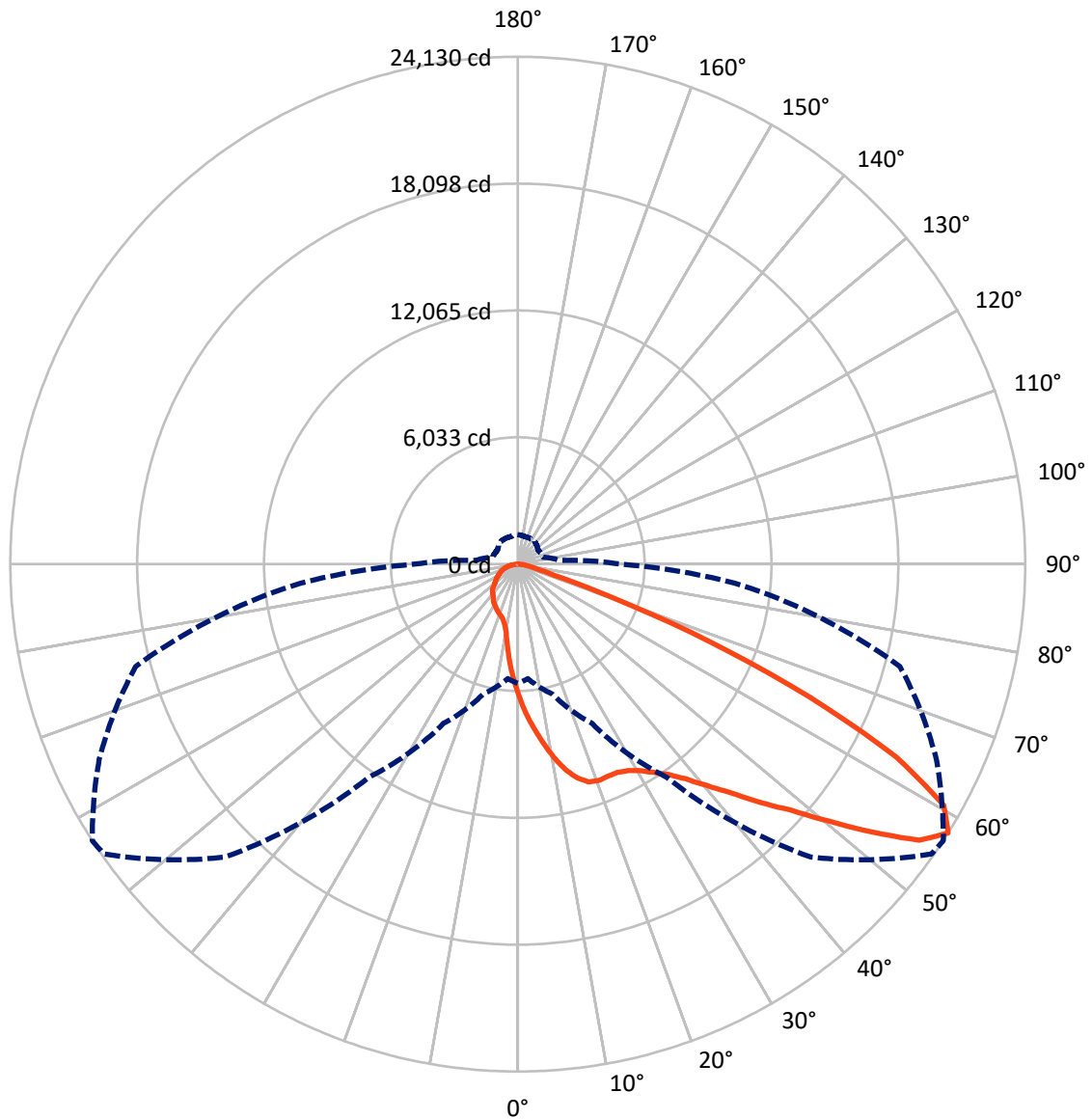
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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	4521.6	0.0	4521.6
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	25211.4	0.0	25211.4
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	29733.0	0.0	29733.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	600.4	2.0
10°-20°	1769.3	6.0
20°-30°	2937.9	9.9
30°-40°	4425.4	14.9
40°-50°	6644.3	22.3
50°-60°	7447.4	25.0
60°-70°	4358.6	14.7
70°-80°	1289.2	4.3
80°-90°	260.6	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°	29733.0	100.0
0°-180°	29733.0	100.0

**Coefficient of Utilization**



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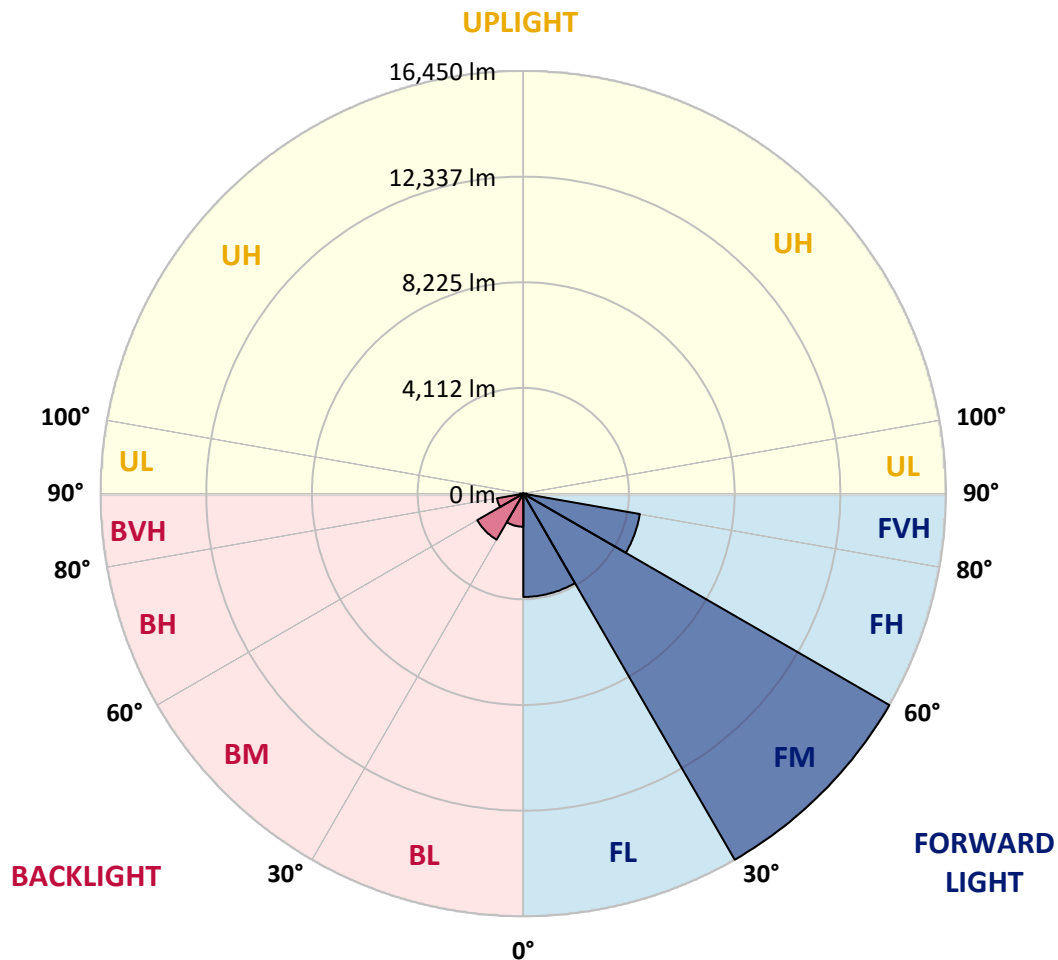
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4019.2	13.5			
FM	(30°-60°)	16449.6	55.3			
FH	(60°-80°)	4607.4	15.5			G2/5000
FVH	(80°-90°)	135.2	0.5			G2/225
BL	(0°-30°)	1288.3	4.3	B3/2500		
BM	(30°-60°)	2067.4	7.0	B2/2500		
BH	(60°-80°)	1040.4	3.5	B3/2500		G3/2500
BVH	(80°-90°)	125.4	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°	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6
2.5°	7761.8	7677.2	7610.5	7551.9	7475.4	7268.7	7062.0	7058.7	6894.3	6640.4	6380.0
5°	9026.4	8912.5	8927.1	8744.9	8562.6	8263.1	7825.3	7802.5	7452.6	6977.3	6494.0
7.5°	9850.0	9851.6	9806.0	9701.9	9504.9	9164.8	8668.4	8556.1	8069.4	7348.4	6624.2
10°	9807.7	9851.6	9928.1	10017.6	10077.8	9910.2	9457.7	9321.0	8687.9	7797.6	6769.0
12.5°	9244.5	9312.9	9421.9	9646.5	10009.5	10286.2	10131.5	10020.9	9404.0	8245.2	6928.5
15°	8893.0	8933.7	8993.9	9145.2	9535.9	10198.3	10598.6	10540.1	10079.5	8751.4	7107.5
17.5°	8785.6	8826.2	8845.8	8938.5	9216.9	9895.5	10782.6	10886.7	10678.4	9216.9	7288.2
20°	8893.0	8912.5	8912.5	8967.8	9185.9	9718.1	10774.4	10984.4	11169.9	9775.1	7457.5
22.5°	9174.5	9182.7	9171.3	9190.8	9353.6	9767.0	10697.9	10958.3	11567.0	10248.7	7589.3
25°	9631.9	9644.9	9570.0	9524.5	9643.3	9981.8	10740.2	10979.5	11877.9	10701.2	7677.2
27.5°	10151.1	10167.3	10076.2	9970.4	10025.7	10247.1	10906.3	11121.1	12110.7	11147.1	7732.5
30°	10787.4	10794.0	10641.0	10514.0	10478.2	10642.6	11189.5	11389.6	12400.4	11672.8	7815.5
32.5°	11438.5	11487.3	11290.4	11111.3	11051.1	11101.6	11607.7	11801.4	12745.4	12237.6	7949.0
35°	12323.9	12332.0	12096.0	11877.9	11679.3	11744.4	12143.2	12283.2	13222.3	12890.2	8137.8
37.5°	13429.0	13503.8	13178.3	12771.4	12527.3	12432.9	12791.0	12944.0	13891.2	13691.0	8422.6
40°	14656.1	14683.8	14405.5	14151.6	13705.7	13432.2	13679.6	13845.6	14716.4	14646.4	8753.0
42.5°	15427.6	15487.8	15509.0	15482.9	15147.7	14688.7	14783.1	14861.2	15692.9	15543.2	9091.5
45°	15688.0	15777.5	16080.3	16721.5	16757.3	16304.9	16085.1	16160.0	16757.3	16448.1	9415.4
47.5°	15256.7	15409.7	15968.0	17283.0	18267.7	18301.9	17639.5	17475.1	17727.3	17198.4	9649.8
50°	14141.8	14174.4	15028.9	16933.1	18975.7	20211.0	19525.8	19219.8	18648.5	17753.4	9810.9
52.5°	12416.6	12454.1	13170.2	15307.2	18539.5	21545.6	21732.8	21185.9	19584.4	18184.7	9916.7
55°	9216.9	9433.3	10221.1	12286.4	16472.5	21420.3	23487.3	23176.4	20715.5	18526.5	10082.7
57.5°	5667.2	5468.6	6402.8	8359.1	12389.0	19698.3	24029.2	24130.2	21960.6	18812.9	10361.0
60°	2607.3	2646.4	3032.1	4311.4	7551.9	15409.7	22632.8	23270.8	22649.1	18803.2	10431.0
62.5°	1796.8	1761.0	1663.4	1892.8	3443.9	9745.8	19117.3	20198.0	21268.9	18218.9	10152.7
65°	1606.4	1570.6	1381.8	1318.3	1582.0	4247.9	13897.7	15261.6	17908.0	16744.3	9459.4
67.5°	1500.6	1451.8	1256.5	1132.8	1129.5	1691.0	8194.7	9837.0	13282.5	14156.5	8196.4
70°	1389.9	1350.9	1157.2	1020.5	961.9	1062.8	3601.8	4715.0	8624.4	10201.5	6384.9
72.5°	1279.3	1233.7	1059.5	913.1	836.6	795.9	1380.2	1795.2	4872.9	6116.4	3914.3
75°	1118.1	1095.3	947.2	826.8	743.8	642.9	875.6	999.3	2330.7	2809.2	1964.5
77.5°	978.2	953.7	841.4	722.6	662.4	522.4	621.7	678.7	983.0	1139.3	887.0
80°	716.1	740.5	709.6	638.0	590.8	410.1	418.3	465.5	584.3	646.1	542.0
82.5°	454.1	499.7	546.9	491.5	447.6	323.9	289.7	307.6	398.8	423.2	240.9
85°	190.4	193.7	317.4	299.5	255.5	192.1	174.1	183.9	213.2	223.0	112.3
87.5°	73.2	71.6	112.3	104.2	79.8	55.3	55.3	61.8	84.6	78.1	35.8
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°	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6	6246.6
2.5°	6267.7	6152.2	5922.7	5637.9	5429.5	5195.2	4988.5	4840.4	4785.0	4759.0	4710.1
5°	6262.8	6035.0	5559.7	5061.7	4661.3	4251.2	3904.5	3679.9	3660.4	3510.6	3496.0
7.5°	6264.5	5916.2	5159.4	4427.0	3816.6	3396.7	3110.3	3035.4	2945.9	2923.1	2934.5
10°	6269.3	5764.8	4729.7	3798.7	3207.9	2932.9	2825.4	2796.1	2799.4	2809.2	2810.8
12.5°	6275.9	5618.3	4283.7	3321.8	2866.1	2752.2	2740.8	2766.8	2794.5	2815.7	2820.6
15°	6284.0	5450.7	3849.2	2937.7	2695.2	2685.5	2722.9	2766.8	2805.9	2836.8	2841.7
17.5°	6274.2	5255.4	3484.6	2701.7	2600.8	2648.0	2709.9	2765.2	2801.0	2830.3	2833.6
20°	6251.4	5037.3	3133.0	2535.7	2542.2	2618.7	2685.5	2737.6	2776.6	2791.3	2802.7
22.5°	6163.6	4776.9	2827.1	2407.2	2472.3	2578.0	2657.8	2688.7	2644.8	2613.9	2622.0
25°	6013.8	4438.3	2542.2	2303.0	2408.8	2521.1	2602.5	2527.6	2491.8	2478.8	2485.3
27.5°	5826.7	4067.3	2327.4	2193.9	2327.4	2457.6	2434.8	2421.8	2405.5	2384.4	2389.3
30°	5624.8	3704.3	2145.1	2109.3	2239.5	2314.4	2324.2	2345.3	2327.4	2294.9	2307.9
32.5°	5437.7	3362.5	2006.8	2037.7	2177.7	2166.3	2239.5	2263.9	2180.9	2071.9	2076.8
35°	5278.2	3045.2	1902.6	1967.7	2071.9	2076.8	2150.0	2065.4	1975.9	1923.8	1927.0
37.5°	5157.7	2797.8	1834.3	1907.5	1936.8	1998.6	1959.6	1915.6	1904.2	1868.4	1870.1
40°	5086.1	2581.3	1790.3	1860.3	1855.4	1897.7	1772.4	1816.4	1832.6	1821.2	1822.9
42.5°	5014.5	2428.3	1744.7	1795.2	1793.6	1710.6	1682.9	1720.3	1762.6	1767.5	1764.3
45°	4957.5	2309.5	1697.5	1695.9	1728.5	1598.3	1590.1	1612.9	1673.1	1702.4	1700.8
47.5°	4894.1	2210.2	1625.9	1580.4	1590.1	1528.3	1515.3	1525.0	1598.3	1645.5	1658.5
50°	4814.3	2110.9	1536.4	1474.6	1433.9	1463.2	1466.4	1468.1	1541.3	1595.0	1606.4
52.5°	4750.8	2036.1	1433.9	1388.3	1339.5	1404.6	1429.0	1432.2	1476.2	1520.1	1528.3
55°	4788.3	1993.8	1333.0	1300.4	1256.5	1344.4	1391.6	1398.1	1407.8	1440.4	1445.3
57.5°	4900.6	2003.5	1251.6	1209.3	1176.7	1272.7	1352.5	1357.4	1350.9	1389.9	1396.4
60°	4934.8	1998.6	1191.4	1108.4	1088.8	1196.3	1295.5	1305.3	1303.7	1360.6	1372.0
62.5°	4791.5	1936.8	1131.2	1023.7	1010.7	1118.1	1215.8	1254.8	1263.0	1344.4	1359.0
65°	4454.6	1809.8	1051.4	934.2	934.2	1035.1	1139.3	1193.0	1215.8	1324.8	1341.1
67.5°	4010.3	1660.1	970.0	857.7	854.5	955.4	1057.9	1113.2	1149.1	1297.2	1306.9
70°	3328.4	1458.3	869.1	774.7	774.7	865.9	958.6	1025.4	1077.4	1245.1	1245.1
72.5°	2280.2	1212.5	747.0	680.3	681.9	766.6	861.0	935.8	997.7	1140.9	1144.2
75°	1442.0	947.2	613.6	579.4	585.9	665.7	763.3	841.4	965.1	1127.9	1132.8
77.5°	766.6	665.7	488.3	480.1	488.3	561.5	670.6	778.0	968.4	978.2	961.9
80°	496.4	472.0	385.7	369.5	372.7	452.5	597.3	738.9	778.0	787.7	751.9
82.5°	270.2	299.5	273.4	257.2	257.2	353.2	509.4	587.5	558.3	463.9	442.7
85°	115.6	140.0	141.6	123.7	118.8	218.1	341.8	320.6	297.8	284.8	281.6
87.5°	32.6	45.6	45.6	34.2	26.0	60.2	68.4	19.5	0.0	1.6	3.3
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)