

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: P454152

Luminaire Tested: **GALN-SA5B-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23967 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

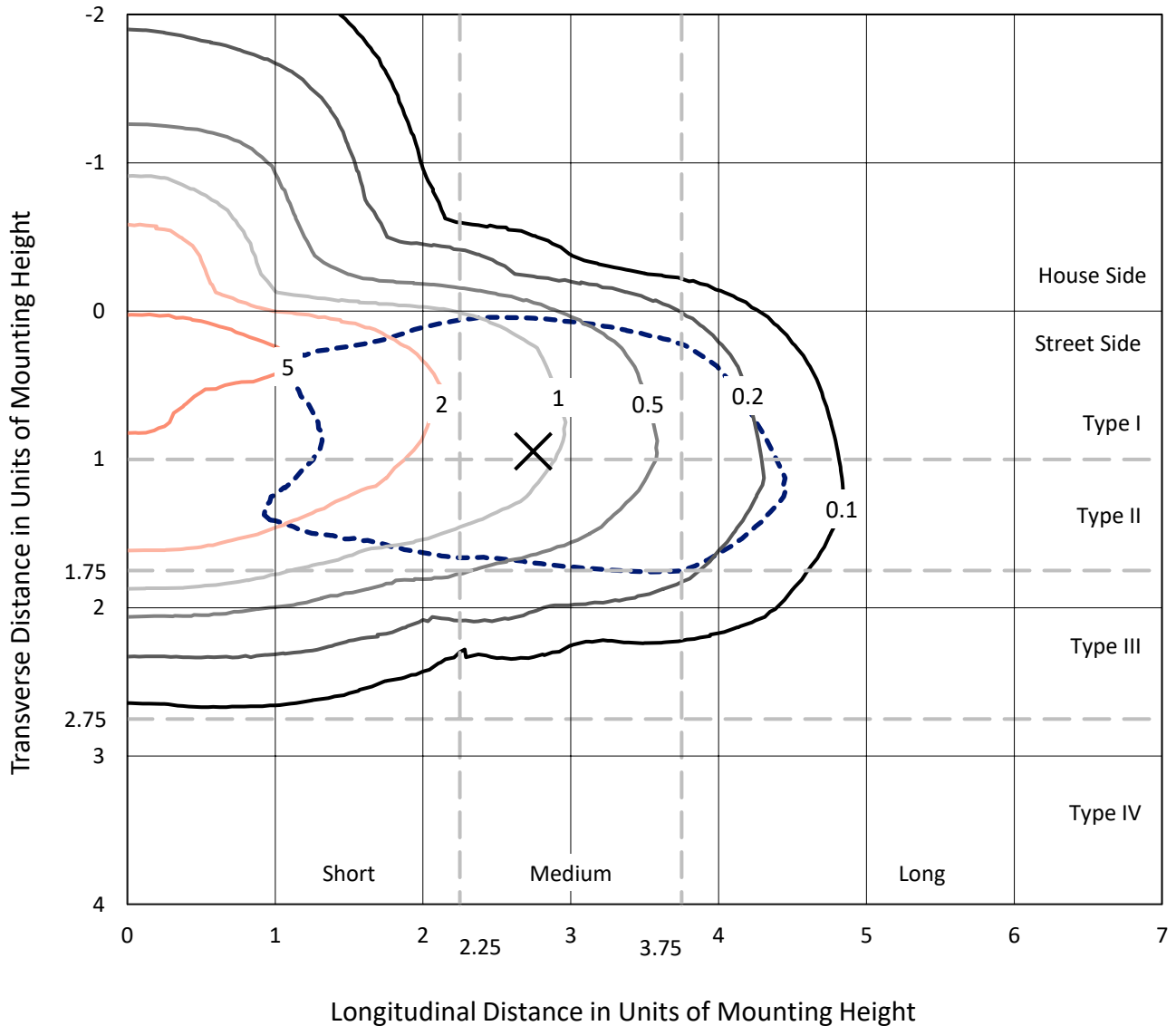
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

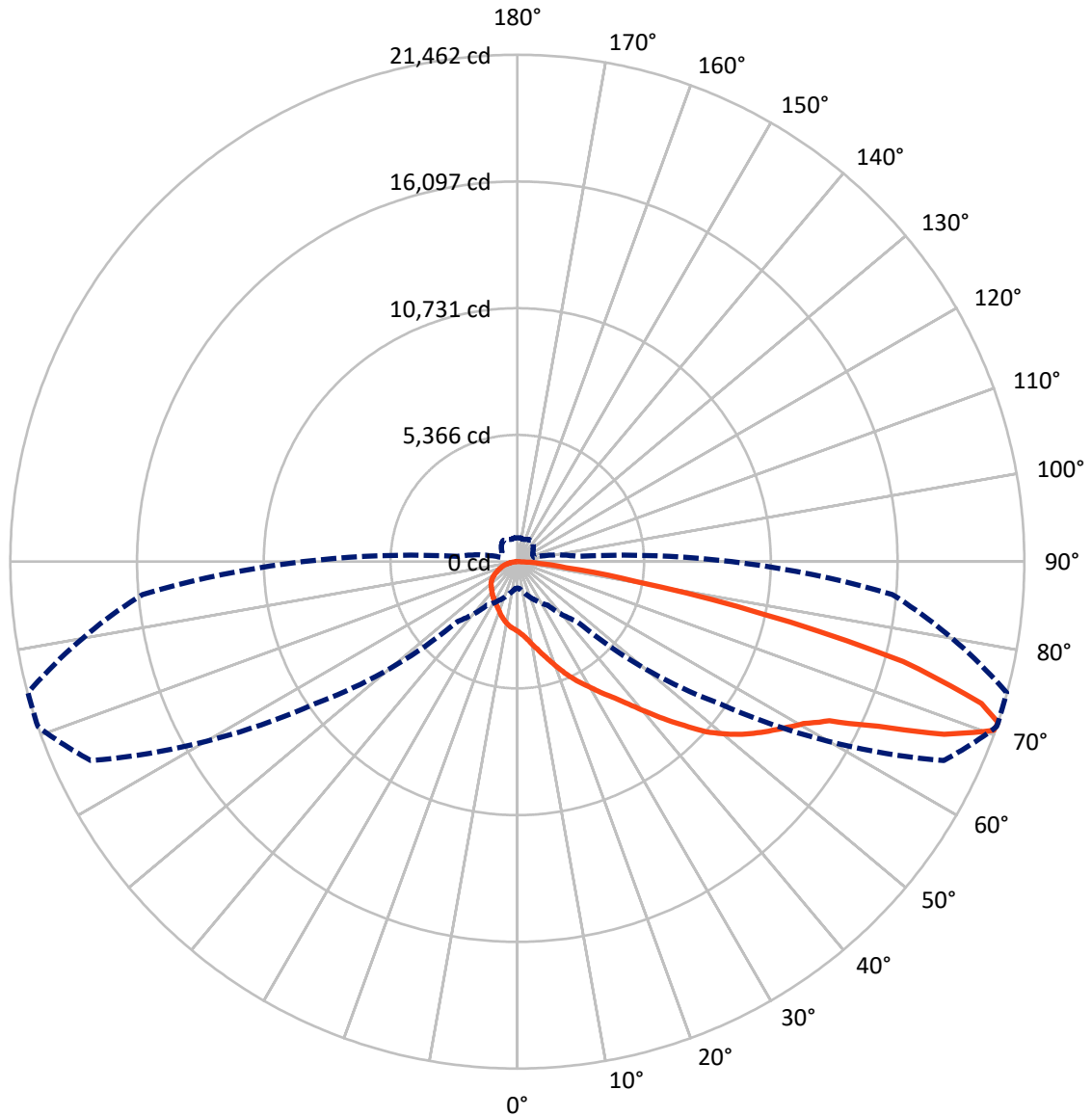
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4310.4	0.0	4310.4
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	19656.6	0.0	19656.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	23967.0	0.0	23967.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.3	1.2
10°-20°	959.5	4.0
20°-30°	1676.9	7.0
30°-40°	2494.2	10.4
40°-50°	3674.8	15.3
50°-60°	5144.8	21.5
60°-70°	5754.3	24.0
70°-80°	3515.0	14.7
80°-90°	452.2	1.9
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°	23967.0	100.0
0°-180°	23967.0	100.0

Coefficient of Utilization



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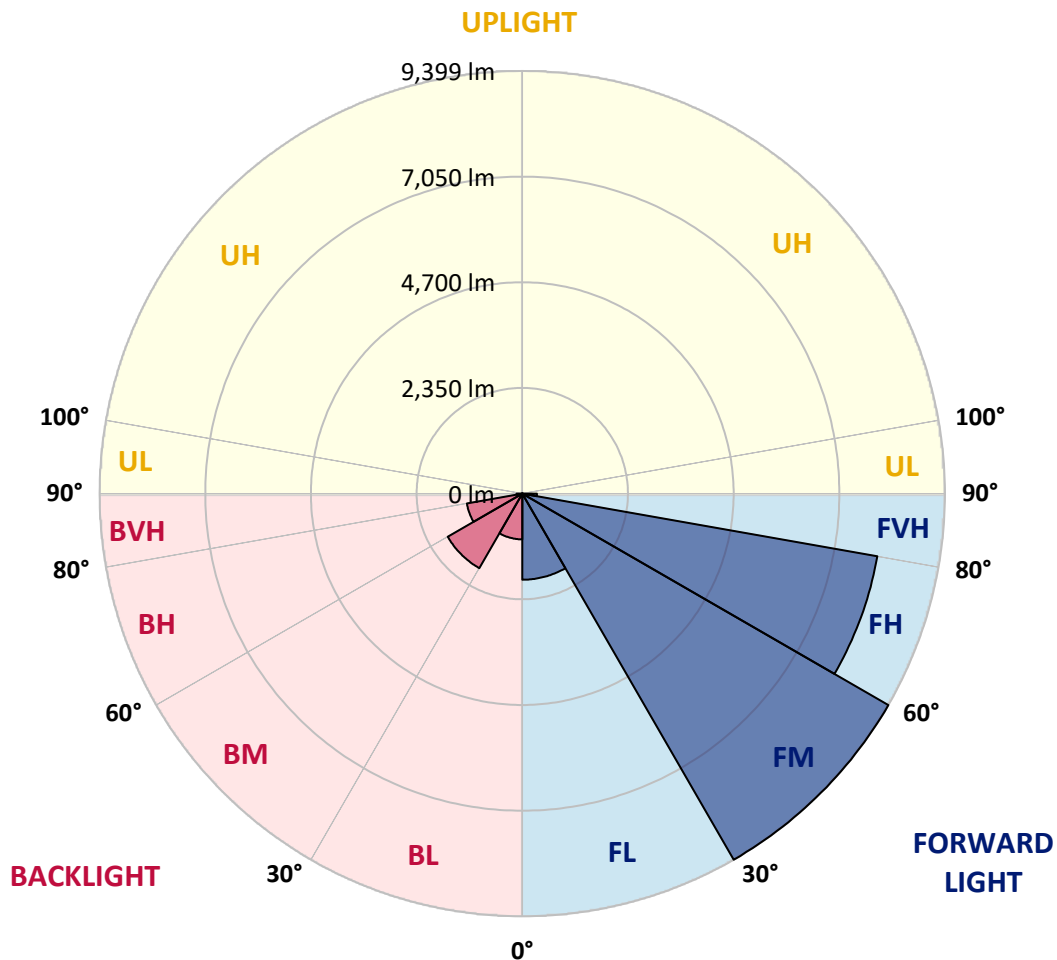
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1915.0	8.0			
FM	(30°-60°)	9399.4	39.2			
FH	(60°-80°)	8016.9	33.4			G4/12000
FVH	(80°-90°)	325.3	1.4			G3/500
BL	(0°-30°)	1016.8	4.2	B3/2500		
BM	(30°-60°)	1914.4	8.0	B2/2500		
BH	(60°-80°)	1252.4	5.2	B3/2500		G3/2500
BVH	(80°-90°)	126.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2941.5	2941.5	2941.5	2941.5	2941.5	2941.5	2941.5	2941.5	2941.5	2941.5	2941.5
2.5°	3265.5	3249.7	3251.0	3228.6	3199.7	3168.0	3123.3	3083.7	3052.1	3033.7	2979.7
5°	3618.6	3602.7	3583.0	3534.3	3513.2	3435.5	3336.7	3247.1	3178.6	3140.4	3032.4
7.5°	3904.4	3900.5	3895.2	3867.5	3813.5	3705.5	3621.2	3465.8	3364.3	3291.9	3107.5
10°	4080.9	4087.5	4091.5	4096.7	4074.3	4017.7	3901.8	3705.5	3576.4	3484.2	3204.9
12.5°	4170.5	4177.1	4199.5	4248.2	4278.5	4271.9	4177.1	3984.8	3806.9	3685.7	3309.0
15°	4225.8	4236.4	4275.9	4340.4	4441.9	4506.4	4460.3	4282.5	4087.5	3943.9	3432.8
17.5°	4286.4	4298.3	4341.7	4433.9	4567.0	4706.6	4756.7	4603.9	4391.8	4220.6	3571.1
20°	4320.7	4336.5	4398.4	4519.6	4675.0	4877.9	5043.8	4963.5	4731.7	4542.0	3730.5
22.5°	4376.0	4389.2	4441.9	4570.9	4756.7	5010.9	5331.0	5313.9	5109.7	4864.7	3905.7
25°	4526.2	4547.2	4573.6	4651.3	4830.4	5146.6	5569.4	5688.0	5475.9	5201.9	4066.4
27.5°	4809.4	4826.5	4825.2	4835.7	4937.1	5263.8	5776.3	6058.2	5839.5	5543.1	4221.9
30°	5132.1	5138.7	5144.0	5120.3	5142.6	5383.7	5965.9	6424.4	6205.7	5893.5	4357.5
32.5°	5524.7	5537.8	5493.0	5432.4	5414.0	5561.5	6122.7	6790.6	6639.1	6249.2	4491.9
35°	5988.3	6022.6	5931.7	5825.0	5749.9	5817.1	6333.5	7164.7	7083.0	6703.6	4669.7
37.5°	6517.9	6560.0	6475.7	6266.3	6159.6	6178.0	6608.8	7627.0	7644.2	7221.3	4934.5
40°	6951.3	7006.6	7009.2	6712.8	6550.8	6571.9	6957.8	8125.0	8321.2	7861.5	5246.7
42.5°	7237.1	7291.1	7347.8	7173.9	7004.0	7123.8	7364.9	8665.0	9082.6	8638.7	5682.7
45°	7550.6	7599.4	7631.0	7551.9	7457.1	7768.0	7856.2	9239.4	9894.1	9506.8	6159.6
47.5°	7914.2	7968.2	7998.5	7923.4	7887.8	8333.1	8385.8	9775.5	10760.8	10349.8	6686.5
50°	8398.9	8439.8	8424.0	8376.6	8368.7	8766.5	8894.2	10277.4	11476.1	11257.4	7233.2
52.5°	9002.3	9051.0	9068.1	9000.9	8970.6	9076.0	9303.9	10734.5	12126.8	12037.3	7816.7
55°	9367.1	9444.9	9705.7	9811.1	9883.5	9476.5	9745.2	11239.0	12710.4	12859.2	8443.7
57.5°	8899.5	8999.6	9583.2	10110.1	10791.1	10477.6	10370.9	11765.9	13293.9	13656.2	9194.6
60°	7758.8	7781.1	8533.3	9504.1	10874.1	11764.6	11676.3	12603.7	13926.2	14459.7	10183.9
62.5°	5382.4	5429.8	6319.0	7868.1	9849.3	12228.3	13897.3	14050.1	14832.5	15662.4	11634.2
65°	2775.5	2713.6	3523.7	4945.1	7425.5	11127.0	15696.7	16709.6	16797.9	17543.5	13676.0
67.5°	1708.5	1736.2	2115.5	2887.5	4390.5	8086.8	15508.3	19959.4	19494.4	19852.7	15571.5
70°	1283.0	1317.3	1578.1	1975.9	2676.7	4623.6	12472.0	20747.1	21396.5	21304.3	16148.5
71°	1115.7	1151.3	1422.7	1798.1	2248.6	3568.5	10507.9	19922.5	21462.4	21446.6	15931.1
72.5°	951.1	973.5	1185.5	1522.8	1895.6	2501.5	7894.4	17867.5	20546.9	21072.5	15155.3
75°	746.9	764.0	858.9	1161.8	1492.5	1535.9	4236.4	13395.4	16875.6	17876.7	12616.9
77.5°	608.6	620.4	669.2	862.8	1151.3	1088.1	2222.2	8719.0	10572.5	11580.2	7432.1
80°	483.4	496.6	525.6	584.9	862.8	775.9	1060.4	4418.1	5107.1	5096.5	2966.5
82.5°	375.4	379.4	413.6	429.4	590.1	550.6	574.3	1870.5	2072.1	2140.6	1070.9
85°	237.1	249.0	366.2	329.3	353.0	322.7	283.2	742.9	915.5	902.3	428.1
87.5°	72.5	76.4	123.8	139.6	156.8	140.9	104.1	218.7	267.4	289.8	106.7
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°	2941.5	2941.5	2941.5	2941.5	2941.5	2941.5	2941.5	2941.5	2941.5	2941.5	2941.5
2.5°	2958.6	2944.1	2892.7	2850.6	2811.1	2767.6	2730.7	2720.2	2711.0	2707.0	2705.7
5°	2986.3	2942.8	2841.4	2758.4	2692.5	2631.9	2593.7	2576.6	2559.5	2559.5	2564.7
7.5°	3025.8	2946.7	2790.0	2666.2	2583.2	2526.5	2498.9	2496.2	2500.2	2504.1	2505.5
10°	3069.3	2944.1	2714.9	2560.8	2487.0	2460.7	2462.0	2484.4	2505.5	2521.3	2523.9
12.5°	3111.4	2928.3	2626.6	2462.0	2414.6	2419.8	2456.7	2506.8	2547.6	2570.0	2571.3
15°	3158.8	2903.3	2519.9	2368.5	2352.7	2393.5	2462.0	2538.4	2600.3	2637.2	2641.1
17.5°	3198.3	2861.1	2408.0	2277.6	2297.3	2372.4	2467.3	2566.1	2641.1	2687.2	2695.1
20°	3243.1	2807.1	2292.1	2190.6	2247.3	2348.7	2456.7	2563.4	2641.1	2685.9	2696.5
22.5°	3278.7	2730.7	2181.4	2119.5	2202.5	2319.7	2421.2	2506.8	2570.0	2593.7	2609.5
25°	3293.2	2634.6	2077.3	2061.5	2166.9	2272.3	2340.8	2389.5	2409.3	2406.7	2413.2
27.5°	3285.3	2523.9	1987.8	2015.4	2122.1	2198.5	2232.8	2228.8	2193.3	2160.3	2176.1
30°	3252.4	2392.2	1912.7	1968.0	2064.2	2106.3	2101.1	2049.7	1982.5	1920.6	1924.5
32.5°	3193.1	2249.9	1842.9	1914.0	1982.5	2000.9	1965.4	1898.2	1802.0	1721.7	1709.8
35°	3143.0	2114.2	1781.0	1852.1	1900.8	1891.6	1857.4	1770.4	1683.5	1612.3	1600.5
37.5°	3135.1	1998.3	1721.7	1782.3	1809.9	1796.8	1754.6	1680.8	1649.2	1595.2	1588.6
40°	3177.3	1916.6	1661.1	1708.5	1721.7	1711.1	1665.0	1622.9	1651.9	1638.7	1638.7
42.5°	3291.9	1873.2	1607.1	1634.7	1645.3	1653.2	1620.2	1584.7	1620.2	1559.7	1539.9
45°	3473.7	1874.5	1558.3	1562.3	1593.9	1621.6	1599.2	1546.5	1528.0	1406.9	1383.1
47.5°	3741.1	1919.3	1518.8	1493.8	1550.4	1596.5	1564.9	1488.5	1406.9	1326.5	1312.0
50°	4053.3	1999.6	1483.3	1422.7	1492.5	1564.9	1541.2	1451.6	1367.3	1318.6	1309.4
52.5°	4399.7	2101.1	1439.8	1343.6	1421.3	1550.4	1546.5	1446.4	1330.4	1297.5	1289.6
55°	4827.8	2201.2	1385.8	1251.4	1358.1	1538.6	1532.0	1402.9	1322.5	1298.8	1296.2
57.5°	5325.7	2346.1	1308.1	1157.9	1285.7	1489.8	1475.3	1376.6	1296.2	1279.1	1277.8
60°	6128.0	2571.3	1197.4	1072.3	1211.9	1404.2	1422.7	1331.8	1254.0	1250.1	1248.8
62.5°	7183.1	2887.5	1082.8	984.0	1126.3	1293.6	1346.3	1271.2	1209.3	1229.0	1231.7
65°	8640.0	3153.6	964.2	908.9	1031.4	1186.9	1273.8	1214.5	1159.2	1197.4	1197.4
67.5°	9589.8	3158.8	856.2	831.2	935.3	1097.3	1197.4	1147.3	1094.7	1159.2	1161.8
70°	9392.2	2767.6	766.7	749.5	841.7	1001.1	1113.1	1073.6	1013.0	1070.9	1049.9
71°	9073.4	2550.2	731.1	717.9	804.9	955.0	1073.6	1040.6	980.1	1018.3	1006.4
72.5°	8564.9	2214.3	673.1	675.8	749.5	897.1	1018.3	984.0	923.4	944.5	940.5
75°	7239.7	1933.8	575.6	587.5	644.1	798.3	907.6	881.3	819.3	819.3	815.4
77.5°	4526.2	1351.5	478.2	484.8	546.7	683.7	779.8	757.4	698.2	678.4	673.1
80°	1688.7	698.2	374.1	382.0	420.2	538.8	645.5	624.4	563.8	541.4	520.3
82.5°	638.9	350.4	275.3	268.7	309.6	411.0	505.8	480.8	433.4	379.4	363.6
85°	241.1	173.9	168.6	163.3	181.8	243.7	313.5	308.2	258.2	220.0	216.0
87.5°	63.2	56.6	65.9	48.7	51.4	46.1	47.4	19.8	9.2	4.0	2.6
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)