

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: P530502

Luminaire Tested: **GALN-SA5D-727-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530502  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-727-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27176 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

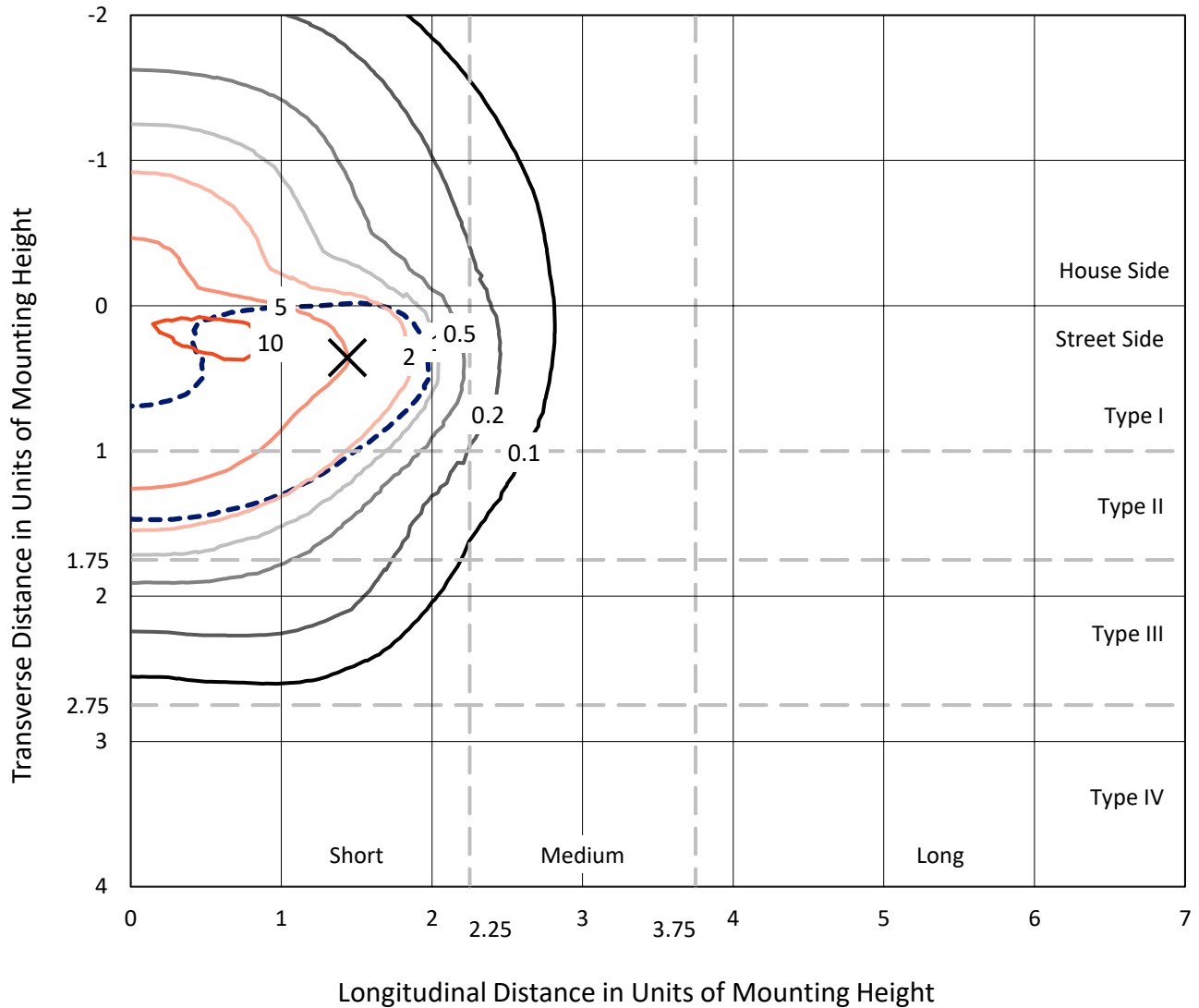
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

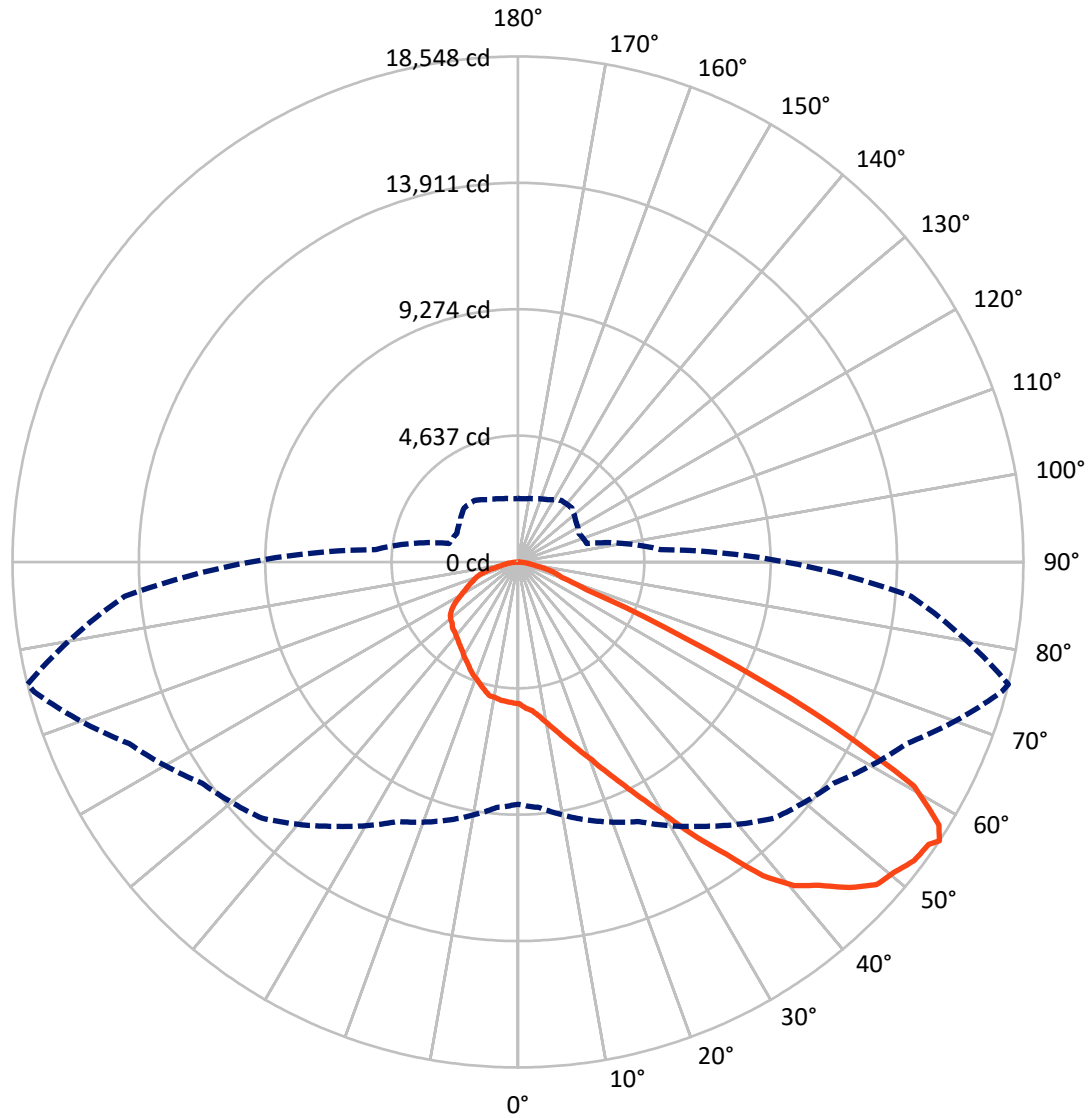
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7306.8	0.0	7306.8
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	19869.2	0.0	19869.2
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	27176.0	0.0	27176.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	515.7	1.9
10°-20°	1619.8	6.0
20°-30°	2832.9	10.4
30°-40°	4435.5	16.3
40°-50°	6452.4	23.7
50°-60°	7091.6	26.1
60°-70°	3165.4	11.6
70°-80°	914.3	3.4
80°-90°	148.3	0.5
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°	27176.0	100.0
0°-180°	27176.0	100.0

**Coefficient of Utilization**

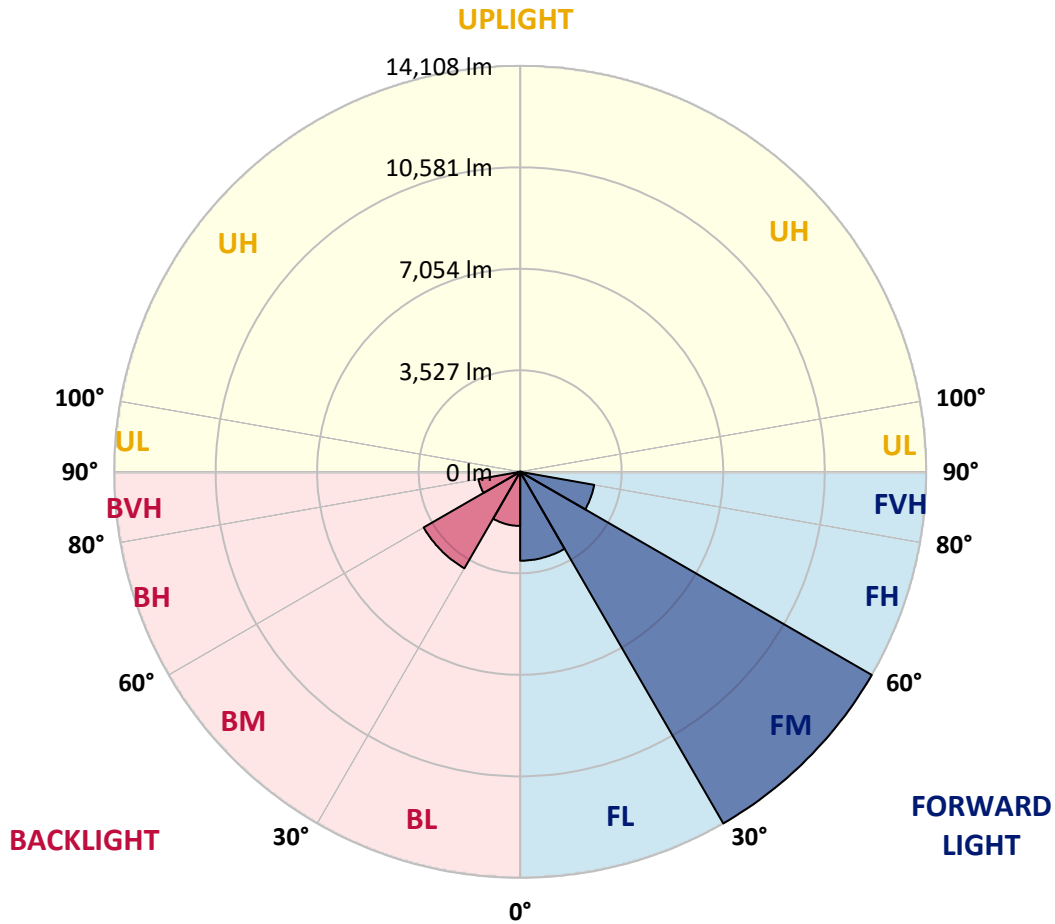


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3088.2	11.4			
FM (30°-60°)	14107.6	51.9			
FH (60°-80°)	2609.5	9.6			G2/5000
FVH (80°-90°)	63.8	0.2			G1/100
BL (0°-30°)	1880.2	6.9	B3/2500		
BM (30°-60°)	3872.0	14.2	B3/5000		
BH (60°-80°)	1470.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	84.5	0.3			G1/100
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°	65°	75°	76°	85°
0°	5199.8	5199.8	5199.8	5199.8	5199.8	5199.8	5199.8	5199.8	5199.8	5199.8	5199.8
2.5°	5728.2	5636.6	5629.6	5604.9	5619.0	5555.6	5488.7	5400.6	5309.0	5365.4	5231.5
5°	6129.8	6006.5	6055.8	5971.3	5981.9	5897.3	5759.9	5657.8	5545.0	5478.1	5383.0
7.5°	6270.7	6281.3	6316.5	6302.4	6232.0	6232.0	6140.4	5960.7	5763.4	5724.7	5566.2
10°	6461.0	6464.5	6425.7	6436.3	6535.0	6489.2	6408.1	6330.6	6077.0	6031.2	5749.3
12.5°	6527.9	6464.5	6527.9	6584.3	6700.5	6763.9	6746.3	6690.0	6418.7	6387.0	5974.8
15°	6538.5	6499.7	6552.6	6679.4	6781.6	7049.3	7183.2	7144.4	6785.1	6788.6	6228.5
17.5°	6489.2	6542.0	6563.1	6672.3	6908.4	7158.5	7546.0	7598.9	7302.9	7257.1	6549.0
20°	6556.1	6517.3	6545.5	6644.2	6957.7	7348.7	7856.0	8204.8	7789.1	7757.4	6880.2
22.5°	6813.3	6760.4	6753.4	6816.8	7042.2	7447.4	8183.7	8810.7	8380.9	8398.6	7292.4
25°	7014.1	7042.2	7017.6	7014.1	7155.0	7595.3	8617.0	9532.9	9184.2	9082.0	7778.5
27.5°	7359.3	7426.2	7376.9	7443.9	7412.2	7817.3	8927.0	10332.6	10050.8	9913.4	8218.9
30°	7838.4	7873.6	7827.9	7827.9	7732.7	8127.3	9208.8	11167.5	11051.3	10864.6	8736.8
32.5°	8469.0	8521.9	8430.3	8377.4	8363.3	8588.8	9716.1	11991.9	12189.2	12030.7	9423.7
35°	9303.9	9272.2	9163.0	9113.7	8923.5	9296.9	10470.0	12939.6	13457.4	13175.6	10255.1
37.5°	10040.2	9990.9	9983.9	9709.1	9754.9	10061.4	11111.2	13658.2	14686.9	14605.9	11132.3
40°	10727.2	10773.0	10847.0	10692.0	10621.5	10959.7	11858.0	14207.8	15641.6	15609.9	11808.7
42.5°	11463.5	11421.2	11551.5	11421.2	11315.5	11794.6	12668.3	14588.3	16480.1	16219.4	12516.8
45°	12530.9	12397.0	12442.8	12453.4	12375.9	12552.0	13003.0	14863.1	17068.4	17040.2	13034.7
47.5°	13422.2	13425.7	13348.2	13288.3	13052.3	13228.4	13376.4	15035.7	17744.8	17699.0	13235.5
50°	13753.3	13707.5	13933.0	14063.4	14077.4	13718.1	13668.8	15130.8	18100.6	17899.8	13436.3
52.5°	12562.6	12604.9	12960.7	13735.7	14183.1	14221.9	14010.5	15328.1	18245.0	18202.7	13598.3
55°	10110.7	10315.0	10899.8	11794.6	12855.0	14021.1	14380.4	15532.4	18322.5	18287.3	14317.0
56°	8888.2	9046.8	9807.7	10508.8	11840.4	13291.8	14147.9	15750.8	18382.4	18548.0	14486.1
57.5°	7155.0	7338.2	7884.2	8680.4	10251.6	11903.8	13506.7	15483.1	18149.9	18213.3	14609.4
60°	4474.1	4491.7	5146.9	5671.8	6778.0	8391.5	10308.0	13471.5	16797.1	16705.5	13122.7
62.5°	2934.6	2938.1	3533.5	3963.2	4467.0	4836.9	6066.4	8934.0	12393.5	12231.5	9342.7
65°	2060.9	2106.7	2568.2	3142.4	3346.7	3153.0	3114.2	4710.1	6922.5	6690.0	5020.1
67.5°	1507.8	1511.3	1920.0	2536.5	2832.4	2399.1	1948.2	2300.4	2740.8	2733.8	2325.1
70°	997.0	1039.3	1352.8	1895.3	2233.5	1927.0	1592.3	1645.2	1743.8	1743.8	1729.7
72.5°	581.3	620.0	827.9	1201.3	1254.1	1204.8	1261.2	1409.2	1472.6	1469.0	1451.4
75°	331.2	348.8	394.6	500.2	623.6	736.3	926.5	1067.4	1130.8	1169.6	1123.8
77.5°	193.8	204.3	232.5	285.4	324.1	398.1	503.8	602.4	687.0	676.4	683.4
80°	102.2	102.2	130.3	169.1	225.5	281.8	334.7	391.0	436.8	447.4	458.0
82.5°	59.9	63.4	84.5	123.3	162.1	200.8	257.2	295.9	338.2	341.7	348.8
85°	31.7	35.2	52.8	81.0	109.2	123.3	126.8	119.8	130.3	123.3	140.9
87.5°	10.6	10.6	17.6	14.1	14.1	17.6	21.1	21.1	28.2	28.2	28.2
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°	5199.8	5199.8	5199.8	5199.8	5199.8	5199.8	5199.8	5199.8	5199.8	5199.8	5199.8
2.5°	5228.0	5228.0	5168.1	5055.3	5037.7	4991.9	4949.7	4946.1	4914.4	4886.2	4872.2
5°	5326.6	5217.4	5129.3	5027.2	4907.4	4851.0	4787.6	4717.1	4689.0	4717.1	4713.6
7.5°	5439.3	5347.7	5083.5	4893.3	4755.9	4699.5	4629.1	4555.1	4562.1	4562.1	4512.8
10°	5548.5	5425.2	5002.5	4759.4	4558.6	4516.3	4477.6	4505.8	4541.0	4548.0	4516.3
12.5°	5731.7	5453.4	4963.7	4625.5	4498.7	4407.1	4431.8	4509.3	4583.3	4562.1	4586.8
15°	5869.1	5478.1	4787.6	4488.2	4329.6	4371.9	4460.0	4512.8	4636.1	4622.0	4646.7
17.5°	6003.0	5492.2	4615.0	4305.0	4238.0	4354.3	4421.2	4572.7	4611.5	4696.0	4727.7
20°	6277.8	5520.4	4438.8	4192.2	4171.1	4305.0	4421.2	4491.7	4576.2	4650.2	4650.2
22.5°	6418.7	5506.3	4322.6	4044.3	4111.2	4195.8	4301.4	4421.2	4421.2	4491.7	4495.2
25°	6594.8	5449.9	4139.4	3973.8	4023.1	4104.2	4223.9	4181.7	4227.5	4227.5	4283.8
27.5°	6795.6	5330.1	3980.9	3847.0	3945.6	4033.7	4051.3	4023.1	3970.3	3963.2	3942.1
30°	6957.7	5182.2	3864.6	3804.7	3885.7	3935.1	3878.7	3818.8	3727.2	3720.2	3670.8
32.5°	7179.6	4999.0	3720.2	3699.0	3790.6	3794.1	3776.5	3684.9	3551.1	3494.7	3438.3
35°	7553.1	4893.3	3611.0	3642.7	3670.8	3660.3	3628.6	3529.9	3396.1	3371.4	3350.3
37.5°	7827.9	4815.8	3498.2	3537.0	3561.6	3575.7	3480.6	3371.4	3374.9	3325.6	3311.5
40°	8137.9	4766.5	3406.6	3424.2	3427.8	3473.6	3357.3	3304.5	3329.1	3297.4	3318.6
42.5°	8536.0	4780.6	3311.5	3297.4	3364.4	3346.7	3290.4	3219.9	3234.0	3138.9	3153.0
45°	8747.3	4875.7	3255.1	3191.7	3265.7	3262.2	3188.2	3121.3	3036.7	2853.5	2860.6
47.5°	8888.2	4900.3	3121.3	3079.0	3156.5	3202.3	3117.8	2962.7	2843.0	2712.6	2680.9
50°	9032.7	4946.1	3057.9	2969.8	3001.5	3110.7	3005.0	2857.1	2740.8	2624.5	2642.2
52.5°	9159.5	5034.2	2934.6	2804.2	2860.6	2980.4	2924.0	2744.3	2617.5	2522.4	2494.2
55°	9723.2	5231.5	2726.7	2557.6	2691.5	2843.0	2811.3	2592.8	2455.5	2406.1	2399.1
56°	9811.2	5238.5	2617.5	2473.1	2596.4	2797.2	2758.4	2525.9	2402.6	2325.1	2328.6
57.5°	9825.3	5154.0	2462.5	2395.6	2501.2	2730.2	2680.9	2473.1	2304.0	2233.5	2212.4
60°	8645.2	4023.1	2268.7	2226.5	2349.8	2525.9	2508.3	2328.6	2138.4	2057.4	2096.1
62.5°	5893.8	2948.7	2117.3	2110.2	2173.6	2346.2	2300.4	2138.4	1979.9	1927.0	1902.4
65°	3431.3	2237.0	1969.3	1941.1	1994.0	2085.5	2117.3	1948.2	1782.6	1747.4	1736.8
67.5°	2025.7	1849.5	1779.1	1733.3	1715.6	1772.0	1796.7	1698.0	1532.5	1483.1	1525.4
70°	1694.5	1645.2	1648.7	1571.2	1528.9	1490.2	1469.0	1381.0	1243.6	1180.2	1162.6
72.5°	1462.0	1440.9	1426.8	1356.3	1317.6	1229.5	1137.9	1049.8	947.7	894.8	898.3
75°	1116.8	1109.7	1116.8	1081.5	1014.6	944.1	859.6	746.9	669.3	602.4	616.5
77.5°	665.8	687.0	697.5	683.4	655.3	591.8	539.0	465.0	391.0	338.2	331.2
80°	458.0	475.6	493.2	475.6	447.4	401.6	345.2	288.9	236.0	207.9	200.8
82.5°	348.8	366.4	376.9	359.3	324.1	274.8	236.0	197.3	155.0	126.8	119.8
85°	126.8	144.4	140.9	169.1	183.2	176.1	151.5	116.3	88.1	63.4	59.9
87.5°	35.2	31.7	35.2	35.2	35.2	31.7	28.2	28.2	28.2	17.6	14.1
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)