

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: P530412

Luminaire Tested: **GALN-SA5C-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23354 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

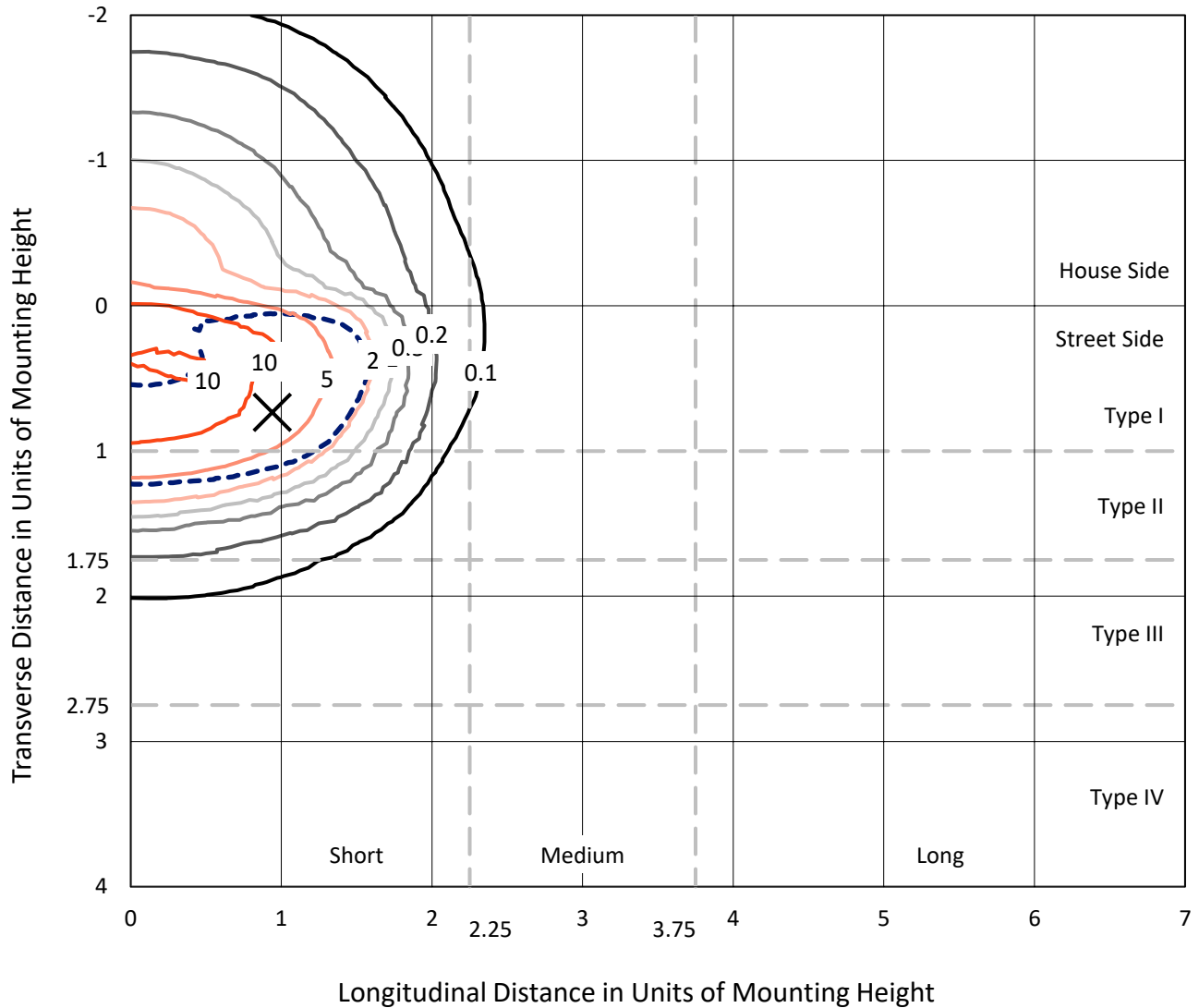
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

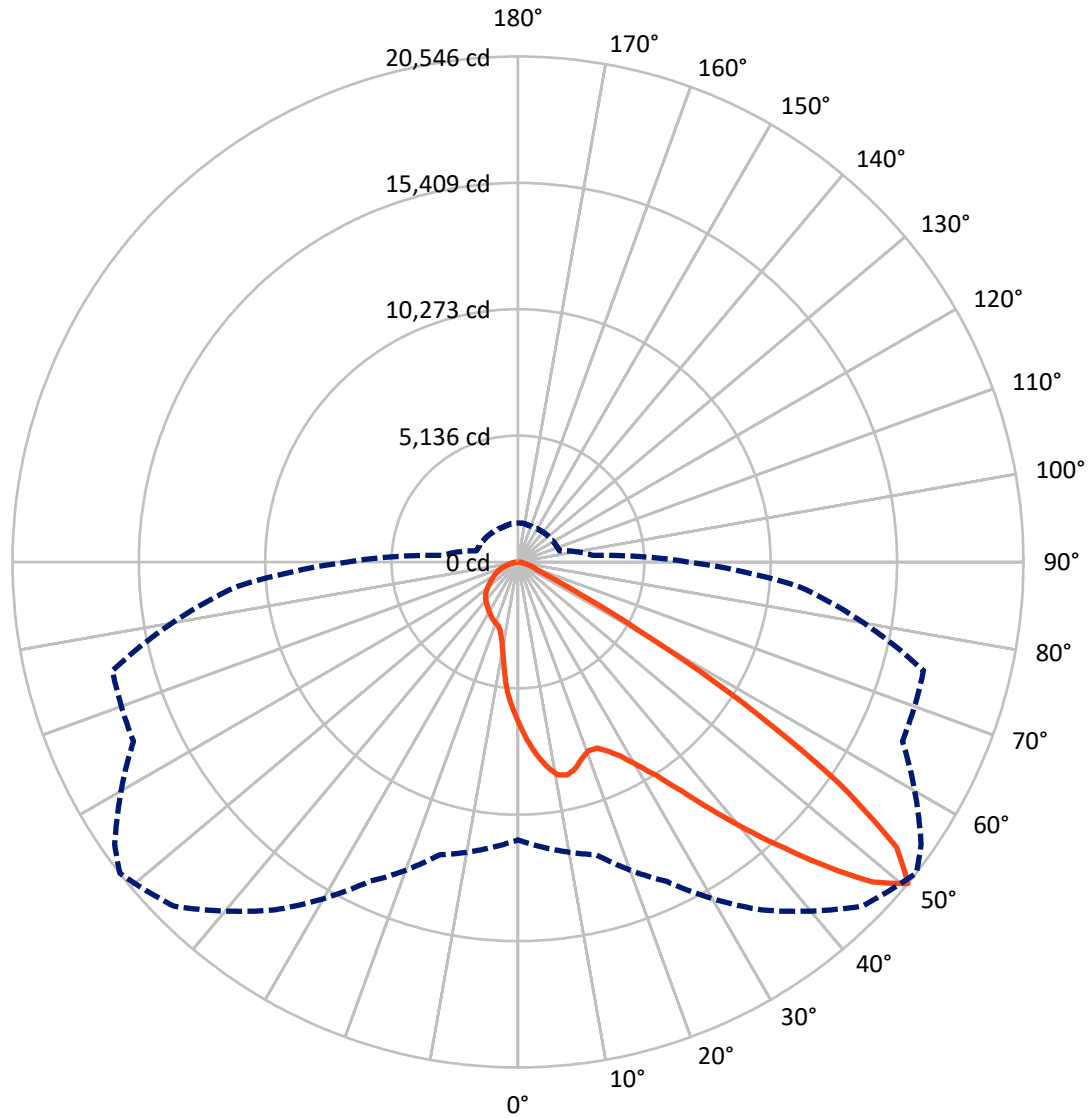
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4390.0	0.0	4390.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18964.0	0.0	18964.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	23354.0	0.0	23354.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.8	2.6
10°-20°	1626.3	7.0
20°-30°	2739.4	11.7
30°-40°	4596.9	19.7
40°-50°	7032.2	30.1
50°-60°	5127.0	22.0
60°-70°	1141.0	4.9
70°-80°	411.5	1.8
80°-90°	72.8	0.3
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°	23354.0	100.0
0°-180°	23354.0	100.0

Coefficient of Utilization



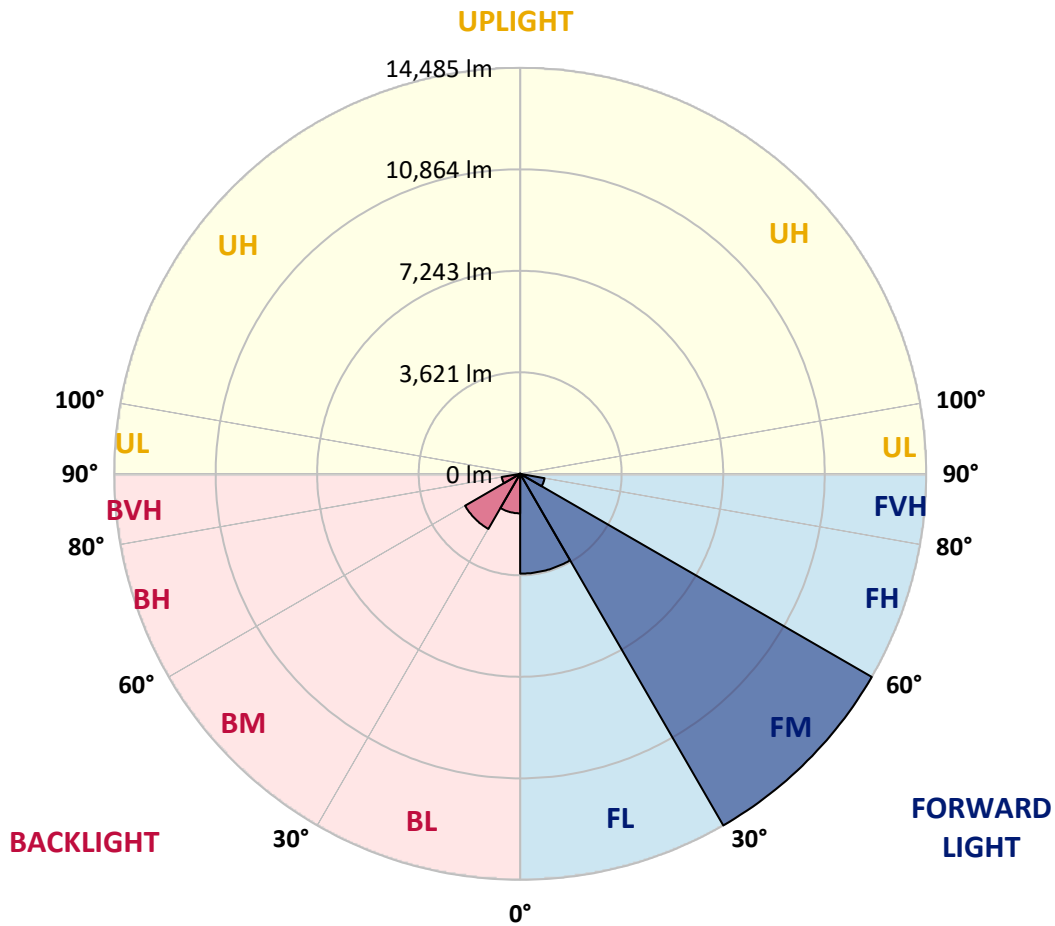
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3562.3	15.3			
FM (30°-60°)	14485.3	62.0			
FH (60°-80°)	883.7	3.8			G1/1800
FVH (80°-90°)	32.6	0.1			G1/100
BL (0°-30°)	1410.2	6.0	B3/2500		
BM (30°-60°)	2270.8	9.7	B2/2500		
BH (60°-80°)	668.8	2.9	B2/1000		G2/1000
BVH (80°-90°)	40.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1
2.5°	7751.1	7602.0	7618.8	7511.9	7396.5	7362.7	7244.5	7131.9	7047.5	6867.4	6701.3
5°	8471.6	8426.6	8359.1	8274.6	8187.4	7973.5	7852.4	7711.7	7402.1	7123.5	6847.7
7.5°	8575.8	8567.3	8603.9	8603.9	8634.9	8553.3	8381.6	8283.1	7953.8	7500.6	6988.4
10°	7844.0	7869.3	8046.6	8277.4	8598.3	8820.6	8792.5	8767.2	8406.9	7787.7	7154.4
12.5°	7261.4	7205.1	7309.2	7506.3	7987.5	8525.1	8888.2	8891.0	8798.1	8246.5	7275.5
15°	6932.1	6971.5	6999.7	7092.5	7455.6	8077.6	8716.5	8905.1	9313.2	8570.1	7466.9
17.5°	7143.2	7010.9	7005.3	7027.8	7213.6	7680.8	8398.5	8722.1	9594.6	8986.7	7703.3
20°	7419.0	7416.2	7337.4	7309.2	7306.4	7723.0	8190.2	8629.2	9743.8	9527.1	7942.5
22.5°	7903.1	7903.1	7773.6	7711.7	7579.4	7920.0	8218.3	8516.7	9991.5	9898.6	8057.9
25°	8713.7	8581.4	8359.1	8207.1	8131.1	8252.1	8516.7	8784.0	10208.2	10292.6	8297.1
27.5°	9462.3	9254.1	9144.3	8882.5	8781.2	8710.9	8952.9	9223.1	10461.5	10906.2	8426.6
30°	10312.3	10275.7	10078.7	9741.0	9490.5	9361.0	9583.4	9850.7	10925.9	11533.8	8724.9
32.5°	11832.1	11500.0	11232.7	10818.9	10410.8	10135.0	10354.5	10531.8	11697.0	12189.6	9051.4
35°	13473.0	13366.0	12904.5	12158.6	11533.8	11286.1	11415.6	11547.9	12594.9	13191.5	9600.2
37.5°	15085.7	14939.3	14559.4	13931.8	13171.8	12668.0	12760.9	12915.7	13602.5	14542.5	10270.1
40°	16245.3	16065.1	15873.8	15780.9	15026.6	14337.0	14283.6	14323.0	14964.7	15809.0	11013.1
42.5°	16329.7	16552.0	16611.2	16985.5	16808.2	16242.5	15913.2	15921.6	16265.0	17061.5	11764.6
45°	16152.4	15946.9	16383.2	17404.8	17990.3	18254.8	17700.4	17630.0	17069.9	17787.6	12138.9
47.5°	14292.0	14348.3	15085.7	16701.2	18392.7	19574.8	19445.4	19211.7	17500.5	17762.3	12079.8
50°	11297.4	11637.9	12321.9	14334.2	17266.9	19783.1	20545.8	20005.4	17244.4	17064.3	11477.5
52.5°	7523.1	7663.9	8114.2	10712.0	13883.9	17683.5	19279.3	19403.1	17008.0	16149.6	10714.8
55°	3349.2	3338.0	3971.3	5595.2	8710.9	13456.1	15752.7	16507.0	16098.9	15218.0	9971.8
57.5°	1418.5	1466.4	1725.3	2417.7	4283.7	8119.8	10672.6	11334.0	12381.0	12496.4	7649.8
60°	959.7	965.4	1035.7	1210.2	1792.8	3813.6	5598.0	6391.7	7140.4	7089.7	4058.5
62.5°	754.3	774.0	827.5	897.8	1063.9	1730.9	2504.9	2946.8	2994.6	2519.0	1539.5
65°	644.5	647.3	700.8	759.9	833.1	1007.6	1207.4	1229.9	1244.0	1199.0	1131.4
67.5°	531.9	537.6	579.8	647.3	714.9	771.2	827.5	855.6	920.3	1047.0	1030.1
70°	422.2	430.6	467.2	523.5	585.4	619.2	689.6	714.9	774.0	872.5	911.9
72.5°	320.9	323.7	354.6	394.0	450.3	484.1	543.2	571.3	610.7	695.2	731.8
75°	230.8	239.2	261.7	281.4	289.9	312.4	368.7	399.7	455.9	492.5	495.4
77.5°	121.0	126.7	132.3	132.3	160.4	202.6	239.2	256.1	295.5	323.7	309.6
80°	47.8	50.7	64.7	87.2	112.6	146.4	171.7	180.1	213.9	230.8	239.2
82.5°	28.1	31.0	42.2	61.9	81.6	104.1	123.8	132.3	154.8	174.5	180.1
85°	14.1	16.9	25.3	39.4	53.5	64.7	61.9	59.1	59.1	56.3	59.1
87.5°	5.6	5.6	8.4	8.4	8.4	11.3	14.1	14.1	14.1	16.9	16.9
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°	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1
2.5°	6591.5	6479.0	6374.8	6183.4	5975.2	5916.1	5674.0	5586.8	5524.9	5451.7	5429.2
5°	6625.3	6476.2	6141.2	5755.6	5448.9	5054.8	4795.9	4517.3	4314.6	4264.0	4249.9
7.5°	6695.7	6439.6	5862.6	5280.0	4652.4	4117.6	3709.5	3490.0	3295.8	3284.5	3264.8
10°	6774.5	6329.8	5558.6	4643.9	3841.8	3346.4	3101.6	3005.9	2958.0	2946.8	2941.1
12.5°	6839.2	6307.3	5218.1	4024.7	3267.6	2969.3	2896.1	2887.7	2907.4	2913.0	2924.3
15°	6867.4	6217.2	4807.2	3470.3	2910.2	2800.4	2831.4	2865.2	2879.2	2915.8	2887.7
17.5°	6920.8	6101.8	4300.5	3031.2	2710.4	2730.1	2783.5	2822.9	2845.5	2870.8	2834.2
20°	6949.0	5997.7	3824.9	2769.5	2640.0	2676.6	2749.8	2780.7	2808.9	2820.1	2777.9
22.5°	6923.7	5783.8	3405.5	2558.4	2572.4	2620.3	2685.0	2718.8	2701.9	2656.9	2631.6
25°	6856.1	5482.6	2969.3	2423.3	2476.8	2561.2	2611.9	2586.5	2555.6	2530.2	2521.8
27.5°	6853.3	5113.9	2654.1	2299.4	2395.1	2510.5	2493.6	2471.1	2485.2	2465.5	2443.0
30°	6867.4	4756.5	2395.1	2229.1	2336.0	2392.3	2412.0	2389.5	2406.4	2369.8	2381.1
32.5°	6794.2	4407.5	2226.3	2147.5	2265.7	2262.9	2327.6	2344.5	2305.1	2229.1	2240.3
35°	6825.2	4126.1	2082.7	2110.9	2186.9	2186.9	2237.5	2217.8	2113.7	2068.7	2079.9
37.5°	7039.1	3850.2	2012.4	2060.2	2110.9	2133.4	2116.5	2032.1	2006.7	2006.7	2012.4
40°	7241.7	3613.8	1970.1	2049.0	2040.5	2054.6	1930.7	1939.2	1939.2	1942.0	1927.9
42.5°	7421.8	3453.4	1936.4	1981.4	1995.5	1922.3	1846.3	1837.9	1857.6	1854.8	1843.5
45°	7486.6	3321.1	1888.5	1905.4	1916.7	1795.6	1759.1	1742.2	1764.7	1773.1	1784.4
47.5°	7238.9	3211.3	1835.1	1801.3	1778.8	1700.0	1652.1	1621.1	1649.3	1697.1	1708.4
50°	6920.8	3067.8	1750.6	1685.9	1638.0	1604.3	1570.5	1539.5	1559.2	1593.0	1584.6
52.5°	6450.8	2842.6	1643.7	1576.1	1494.5	1502.9	1472.0	1455.1	1466.4	1466.4	1457.9
55°	5781.0	2336.0	1463.5	1415.7	1348.1	1370.7	1376.3	1353.8	1331.3	1351.0	1334.1
57.5°	3945.9	1649.3	1305.9	1305.9	1238.4	1269.3	1266.5	1213.0	1159.6	1165.2	1153.9
60°	2282.6	1314.4	1204.6	1193.3	1123.0	1148.3	1153.9	1117.4	1035.7	1041.4	1030.1
62.5°	1297.5	1123.0	1052.6	1035.7	1021.7	1044.2	1044.2	996.3	926.0	931.6	920.3
65°	1103.3	1041.4	940.0	937.2	931.6	937.2	914.7	864.1	802.1	776.8	779.6
67.5°	1002.0	962.6	864.1	838.7	821.8	819.0	776.8	729.0	700.8	678.3	675.5
70°	878.1	847.2	774.0	740.2	723.3	683.9	641.7	610.7	571.3	560.1	571.3
72.5°	695.2	692.4	664.2	627.6	591.0	560.1	523.5	481.3	444.7	436.2	416.5
75°	481.3	486.9	492.5	486.9	455.9	416.5	374.3	340.6	295.5	270.2	264.6
77.5°	315.2	323.7	332.1	320.9	301.2	264.6	236.4	194.2	160.4	140.7	137.9
80°	230.8	242.0	247.7	239.2	216.7	188.6	157.6	123.8	98.5	81.6	81.6
82.5°	177.3	188.6	194.2	180.1	157.6	135.1	112.6	87.2	67.5	53.5	50.7
85°	61.9	59.1	70.4	73.2	87.2	81.6	67.5	50.7	39.4	28.1	25.3
87.5°	16.9	16.9	19.7	19.7	16.9	14.1	14.1	14.1	11.3	8.4	8.4
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)