

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: P534389

Luminaire Tested: **GALN-SA9D-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534389  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-827-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

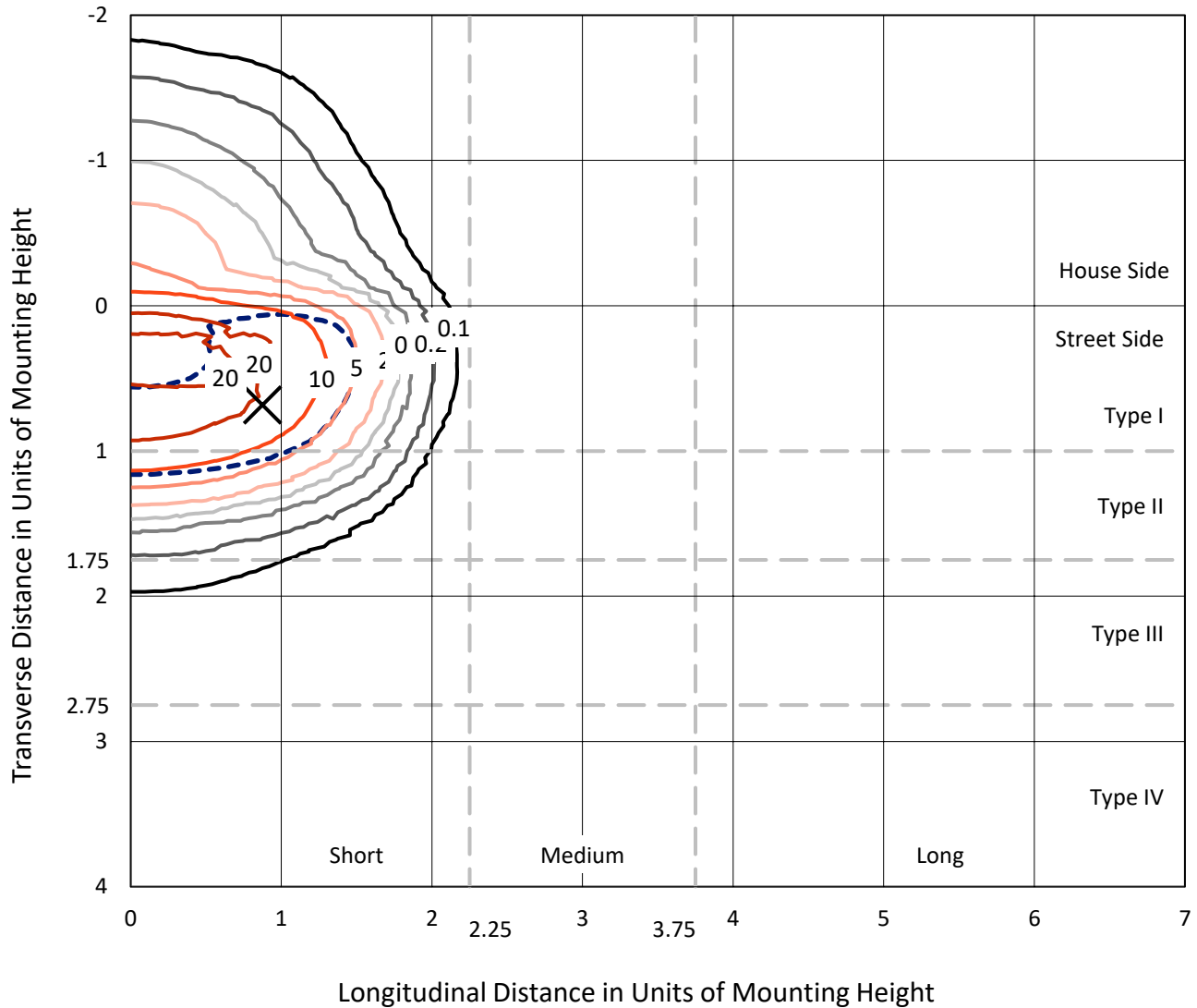
Lumens per Lamp: N/A  
Luminaire Lumens: 38458 lumens  
Efficiency: N/A  
Efficacy: 69.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

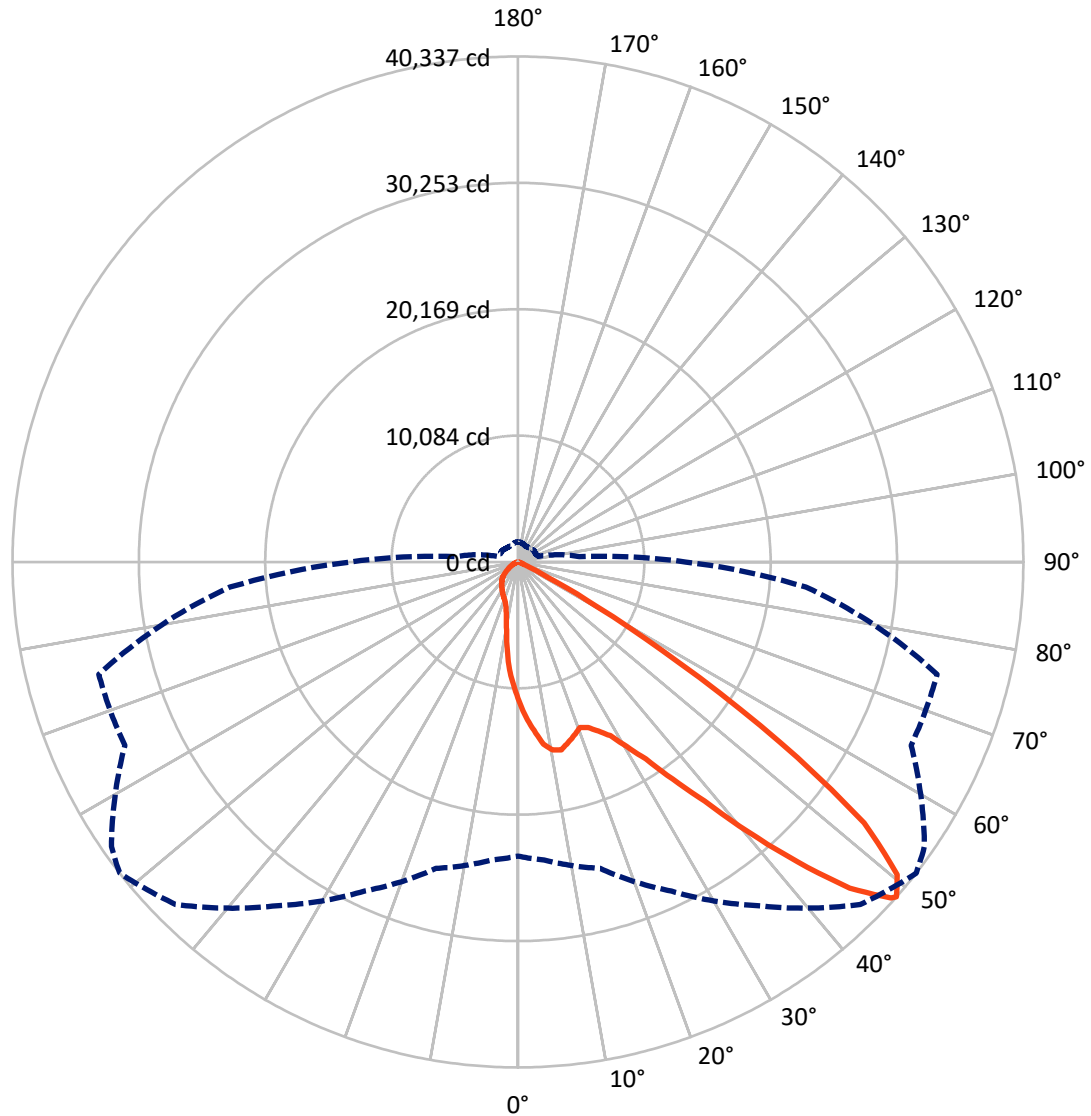
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4682.6	0.0	4682.6
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	33775.4	0.0	33775.4
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	38458.0	0.0	38458.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1016.5	2.6
10°-20°	2656.5	6.9
20°-30°	4535.8	11.8
30°-40°	8352.6	21.7
40°-50°	12971.6	33.7
50°-60°	7806.7	20.3
60°-70°	902.9	2.3
70°-80°	174.8	0.5
80°-90°	40.4	0.1
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°	38458.0	100.0
0°-180°	38458.0	100.0

**Coefficient of Utilization**



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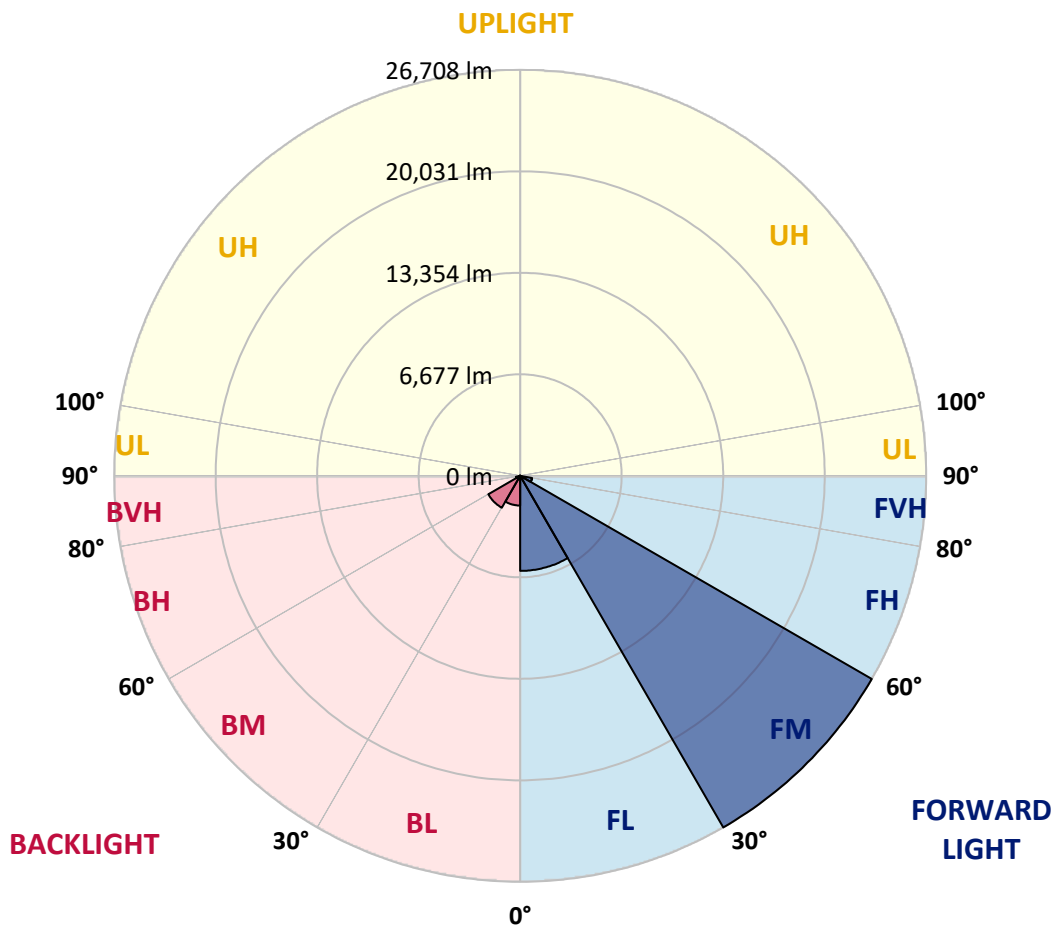
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6252.8	16.3			
FM (30°-60°)	26708.3	69.4			
FH (60°-80°)	795.1	2.1			G1/1800
FVH (80°-90°)	19.2	0.0			G1/100
BL (0°-30°)	1956.1	5.1	B3/2500		
BM (30°-60°)	2422.7	6.3	B2/2500		
BH (60°-80°)	282.6	0.7	B1/500		G1/500
BVH (80°-90°)	21.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0
2.5°	13460.7	13152.3	13180.4	12978.5	12860.8	12670.2	12412.3	12361.8	12081.5	11700.3	11313.5
5°	14671.6	14598.7	14694.0	14402.5	14413.7	14099.8	13494.3	13505.5	12860.8	12238.5	11638.6
7.5°	14750.1	14581.9	14677.2	14935.1	15086.5	15030.4	14688.4	14391.3	13780.2	12866.4	11991.8
10°	13208.4	13527.9	13628.9	14054.9	14660.4	15299.5	15260.3	15277.1	14766.9	13572.8	12294.6
12.5°	12283.3	12070.3	12412.3	12670.2	13584.0	14823.0	15389.2	15512.6	15551.8	14256.8	12597.3
15°	11862.9	11862.9	11918.9	11991.8	12653.4	13797.0	14951.9	15310.7	16157.3	15153.8	13073.8
17.5°	12126.4	12115.2	12193.6	12042.3	12289.0	13169.1	14548.3	14957.5	16835.6	16033.9	13449.5
20°	12928.1	12967.3	12916.9	12479.6	12496.4	13157.9	14099.8	14744.5	17295.4	16796.4	13948.4
22.5°	14043.7	14066.1	13780.2	13303.7	13163.5	13488.7	14357.7	14851.0	17665.4	17710.2	14099.8
25°	15333.2	15243.5	15187.4	14514.6	14088.6	14368.9	14940.7	15226.6	17895.2	18495.1	14531.5
27.5°	17121.6	16942.2	16600.2	16000.3	15686.4	15288.3	15697.6	16168.5	18551.2	19593.9	15002.4
30°	19762.1	19605.1	18938.0	18164.3	17340.2	16947.8	17076.7	17334.6	19734.1	20866.6	15624.7
32.5°	23737.0	23406.2	22441.9	20967.5	19846.2	18764.2	18730.6	19005.3	20793.7	22626.9	16364.7
35°	28115.5	28014.6	26596.2	25076.9	22907.2	21236.6	21264.6	21410.4	22823.1	24936.7	17334.6
37.5°	31025.1	31580.1	30677.5	29046.1	27224.1	24835.8	24230.3	24280.8	25609.5	27672.6	19083.8
40°	33273.2	32802.3	32908.8	32527.6	31283.0	29657.2	28317.3	28053.8	28833.1	30700.0	20821.7
42.5°	32292.1	32314.6	32970.5	33873.1	34181.5	34063.7	32695.8	32196.8	31591.4	33177.9	22475.6
45°	29522.6	30100.1	30952.2	33340.5	35437.3	37405.1	37136.0	36306.2	33497.5	35140.1	23428.6
47.5°	25104.9	25082.5	26478.4	29584.3	34243.1	38851.5	40073.7	39490.6	34848.6	34921.5	23232.4
48°	23473.5	23877.1	25317.9	28973.2	33486.3	38638.5	40337.2	39602.7	34618.8	34630.0	23064.2
50°	17351.4	17278.5	19072.5	23557.6	29909.5	36306.2	39227.1	39798.9	34613.1	33155.5	21886.9
52.5°	9166.3	9480.2	10786.5	14811.8	21146.9	29713.3	34601.9	35493.3	33391.0	30744.8	20193.8
55°	3896.4	3520.7	4524.3	6688.3	11896.5	19851.8	25385.2	27369.8	28233.2	27207.3	17665.4
57.5°	1390.4	1519.3	1749.2	2517.2	5000.8	10865.0	15136.9	16678.7	19560.3	19963.9	12036.7
60°	891.4	908.2	981.1	1154.9	1878.1	4187.9	7181.6	8409.4	9715.7	10029.6	5617.5
62.5°	689.6	695.2	728.8	756.8	891.4	1625.8	2696.6	3195.6	3318.9	2853.6	1474.5
65°	577.4	583.1	594.3	594.3	633.5	762.5	941.9	1037.2	1009.1	997.9	835.3
67.5°	442.9	454.1	476.5	476.5	499.0	465.3	521.4	555.0	627.9	762.5	712.0
70°	347.6	353.2	370.0	381.2	381.2	336.4	375.6	409.3	459.7	566.2	560.6
72.5°	269.1	280.3	291.5	291.5	274.7	229.9	269.1	297.1	330.8	392.4	381.2
75°	207.4	207.4	213.0	173.8	134.6	117.7	162.6	196.2	246.7	257.9	213.0
77.5°	56.1	61.7	56.1	50.5	56.1	84.1	106.5	123.3	157.0	157.0	140.2
80°	0.0	5.6	16.8	33.6	56.1	78.5	95.3	106.5	123.3	134.6	128.9
82.5°	0.0	5.6	16.8	33.6	50.5	61.7	84.1	89.7	100.9	117.7	117.7
85°	0.0	5.6	11.2	22.4	33.6	39.2	39.2	33.6	33.6	28.0	22.4
87.5°	0.0	0.0	5.6	11.2	11.2	16.8	16.8	16.8	16.8	16.8	16.8
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°	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0
2.5°	11162.1	10988.3	10724.8	10309.9	9911.9	9654.0	9407.3	9132.6	8981.3	8970.0	8885.9
5°	11296.6	10904.2	10276.3	9564.3	8801.9	8145.9	7484.4	7052.7	6665.9	6452.8	6413.6
7.5°	11369.5	10859.4	9844.6	8650.5	7349.8	6279.0	5539.0	4995.2	4782.2	4625.2	4619.6
10°	11520.9	10780.9	9199.9	7439.5	5830.5	4748.5	4238.3	3991.7	3873.9	3829.1	3761.8
12.5°	11633.0	10635.1	8538.4	6194.9	4608.4	3935.6	3711.4	3655.3	3660.9	3683.3	3655.3
15°	11790.0	10506.2	7647.0	5084.9	3868.3	3543.2	3543.2	3554.4	3632.9	3644.1	3638.5
17.5°	11778.8	10253.9	6727.5	4187.9	3419.8	3375.0	3391.8	3498.3	3548.8	3565.6	3526.3
20°	11913.3	10018.4	5780.1	3576.8	3167.5	3234.8	3346.9	3375.0	3436.6	3447.9	3403.0
22.5°	11874.1	9429.8	4899.9	3094.7	2976.9	3105.9	3218.0	3251.6	3234.8	3201.2	3195.6
25°	11801.2	8925.2	4092.6	2775.1	2836.8	2976.9	3083.5	3021.8	2988.1	2993.8	2999.4
27.5°	11672.3	8286.1	3425.4	2550.9	2646.2	2853.6	2848.0	2825.6	2859.2	2831.2	2859.2
30°	11649.8	7647.0	2876.0	2349.0	2506.0	2657.4	2668.6	2707.8	2747.1	2696.6	2747.1
32.5°	11683.5	6946.2	2483.6	2225.7	2421.9	2427.5	2550.9	2590.1	2562.1	2449.9	2461.2
35°	11941.4	6408.0	2197.7	2158.4	2287.4	2293.0	2410.7	2360.2	2236.9	2169.6	2208.9
37.5°	12485.2	5959.5	2063.1	2096.7	2108.0	2180.8	2186.4	2085.5	2096.7	2091.1	2113.6
40°	13180.4	5617.5	1967.8	2040.7	2029.5	2079.9	1878.1	1934.2	1984.6	2001.4	2012.7
42.5°	13656.9	5370.8	1906.1	1951.0	1928.6	1838.9	1726.7	1782.8	1822.0	1883.7	1894.9
45°	13869.9	5174.6	1833.3	1794.0	1794.0	1631.4	1586.6	1597.8	1687.5	1754.8	1743.6
47.5°	13522.3	4984.0	1704.3	1586.6	1625.8	1491.3	1440.8	1440.8	1536.1	1620.2	1603.4
48°	13387.8	4905.5	1709.9	1541.7	1569.8	1468.8	1418.4	1407.2	1513.7	1592.2	1592.2
50°	12720.6	4614.0	1564.2	1418.4	1362.3	1351.1	1317.5	1328.7	1396.0	1468.8	1468.8
52.5°	11420.0	3986.1	1323.1	1216.6	1115.6	1182.9	1199.7	1177.3	1211.0	1278.2	1272.6
55°	9530.7	3061.0	1059.6	1009.1	930.6	1003.5	1037.2	1009.1	975.5	1025.9	1025.9
57.5°	6105.2	1648.2	846.5	857.8	779.3	852.2	880.2	812.9	751.2	790.5	784.9
60°	2752.7	986.7	695.2	678.4	627.9	712.0	756.8	678.4	594.3	622.3	650.3
62.5°	1031.6	700.8	527.0	515.8	504.6	583.1	605.5	543.8	459.7	476.5	482.1
65°	756.8	616.7	420.5	381.2	403.7	459.7	448.5	386.8	330.8	330.8	342.0
67.5°	644.7	538.2	342.0	297.1	297.1	302.7	280.3	246.7	229.9	241.1	252.3
70°	504.6	426.1	269.1	229.9	207.4	185.0	162.6	157.0	140.2	157.0	151.4
72.5°	325.2	285.9	207.4	173.8	157.0	128.9	106.5	100.9	84.1	78.5	78.5
75°	173.8	173.8	162.6	140.2	123.3	100.9	84.1	67.3	44.9	33.6	33.6
77.5°	123.3	134.6	145.8	134.6	112.1	84.1	67.3	44.9	22.4	11.2	11.2
80°	117.7	134.6	145.8	128.9	112.1	84.1	61.7	33.6	16.8	5.6	5.6
82.5°	106.5	123.3	134.6	117.7	100.9	72.9	56.1	33.6	16.8	5.6	5.6
85°	22.4	28.0	33.6	33.6	39.2	50.5	39.2	28.0	11.2	5.6	5.6
87.5°	16.8	16.8	16.8	16.8	16.8	16.8	11.2	11.2	5.6	5.6	5.6
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)