

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: P532517

Luminaire Tested: **GALN-SA7D-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532517  
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-SA7D-827-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 29548 lumens  
Efficiency: N/A  
Efficacy: 68.2 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

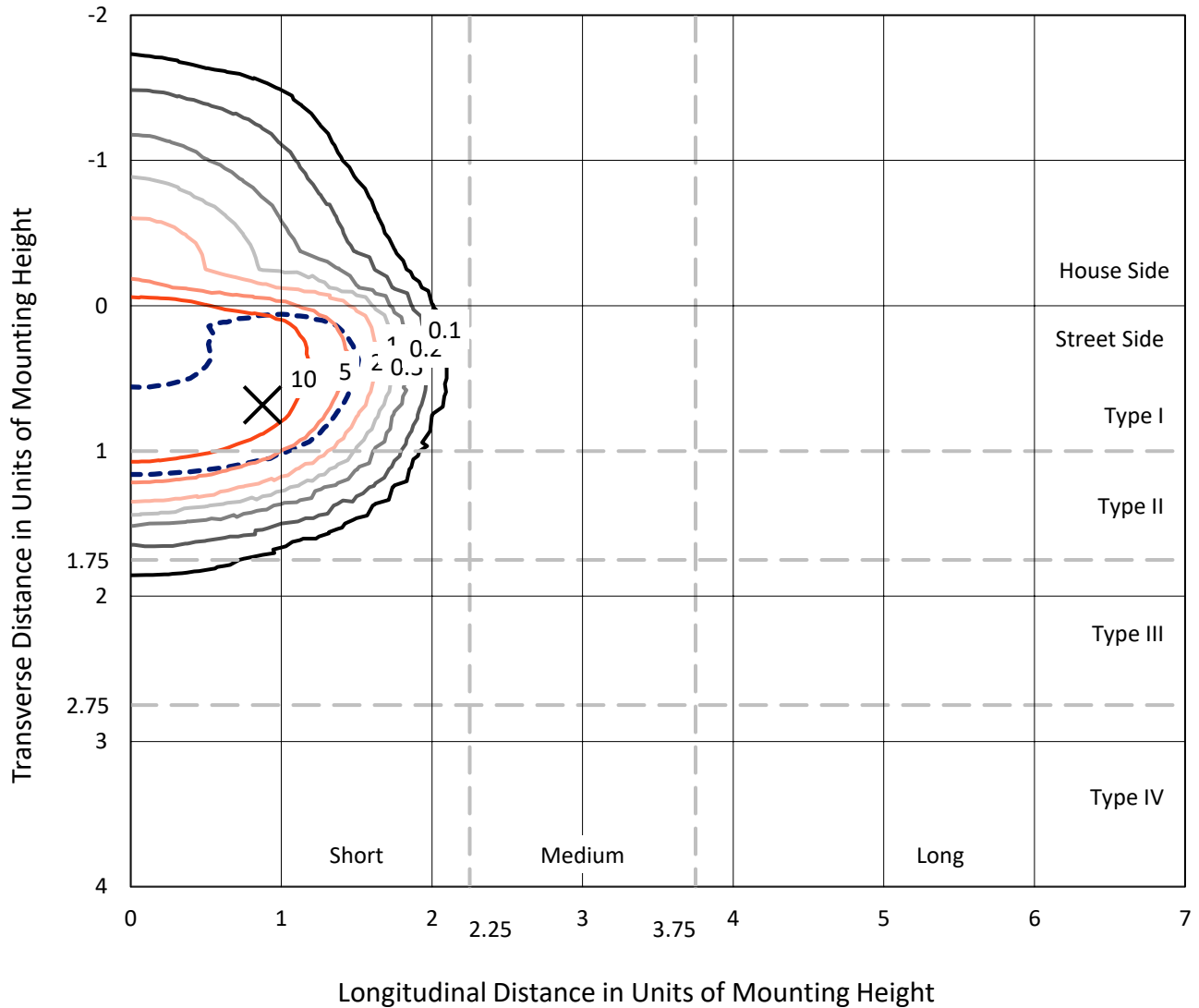
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

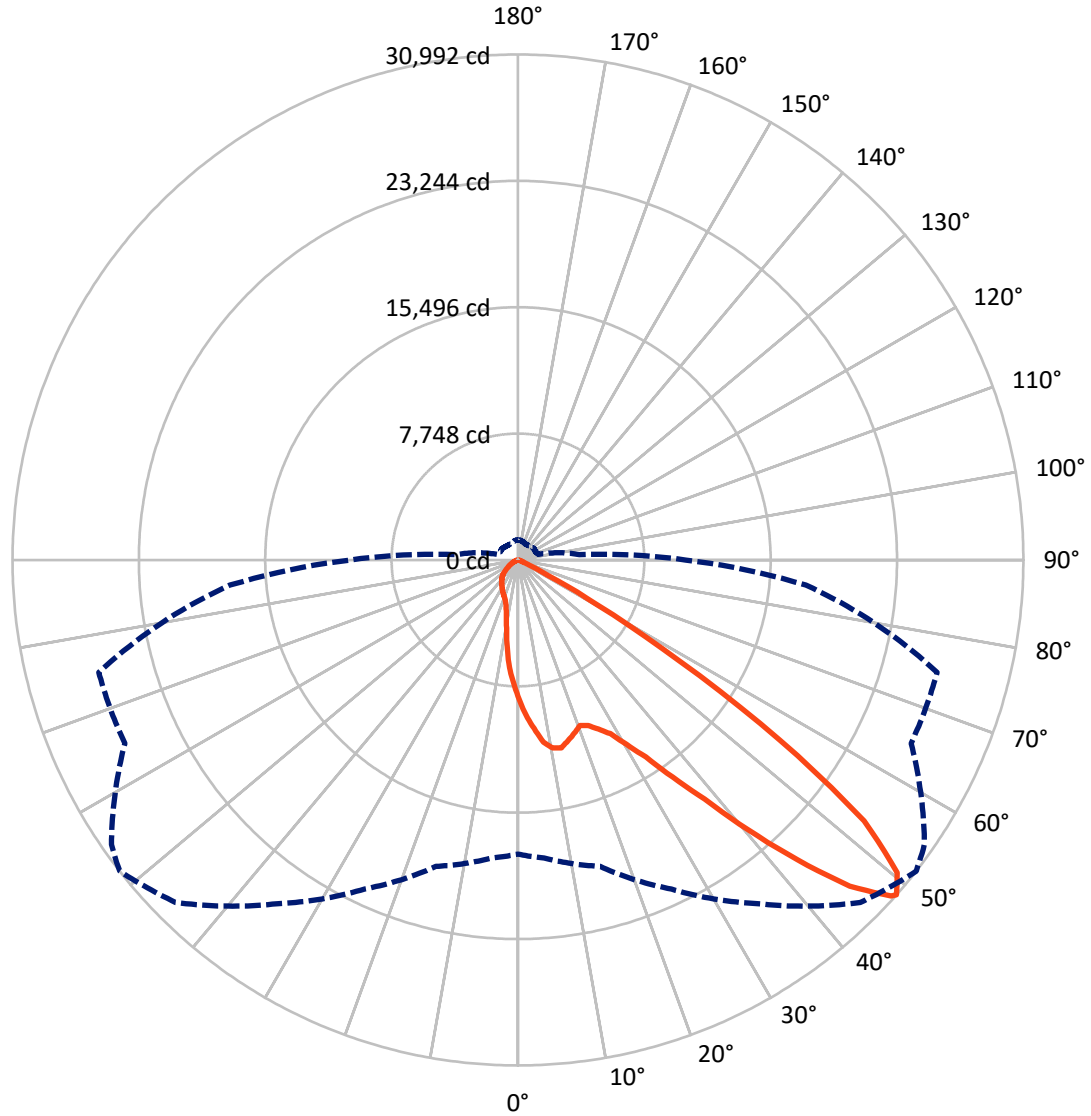
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 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	3597.7	0.0	3597.7
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	25950.3	0.0	25950.3
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	29548.0	0.0	29548.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	781.0	2.6
10°-20°	2041.1	6.9
20°-30°	3484.9	11.8
30°-40°	6417.5	21.7
40°-50°	9966.4	33.7
50°-60°	5998.1	20.3
60°-70°	693.7	2.3
70°-80°	134.3	0.5
80°-90°	31.0	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°	29548.0	100.0
0°-180°	29548.0	100.0



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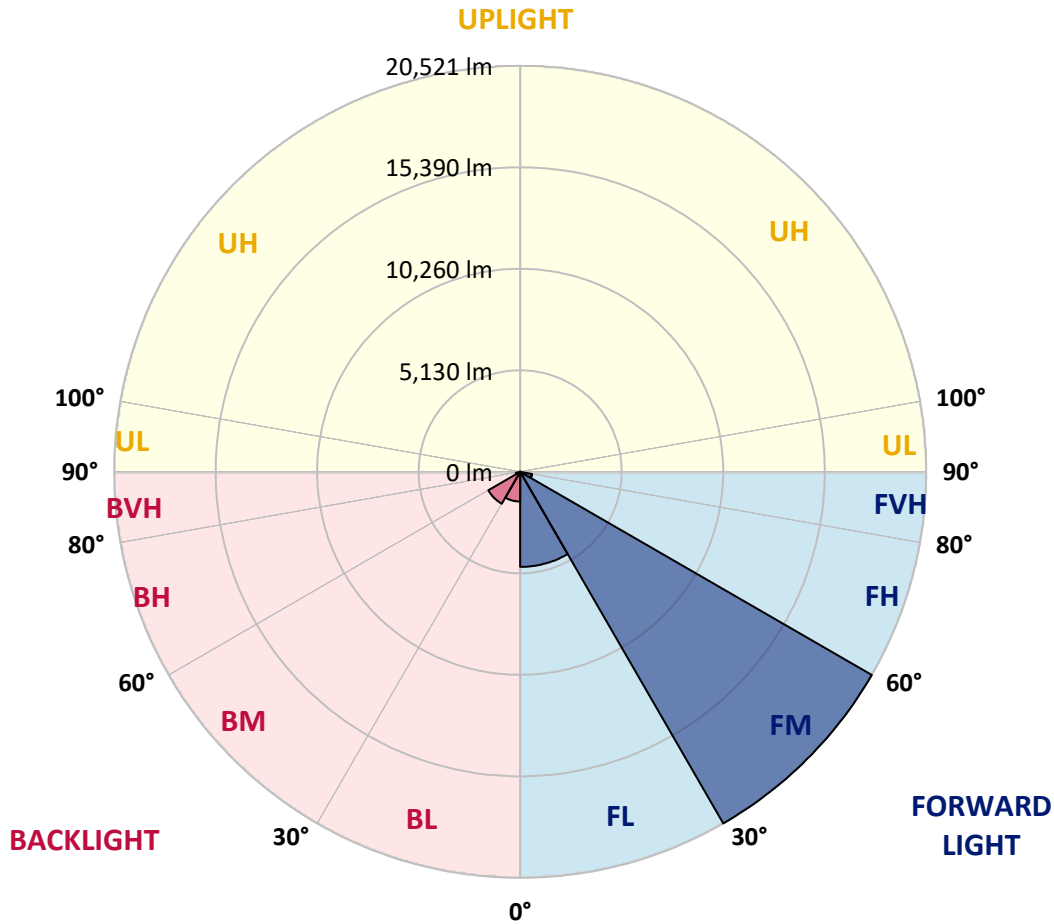
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4804.1	16.3			
FM (30°-60°)	20520.5	69.4			
FH (60°-80°)	610.9	2.1			G0/660
FVH (80°-90°)	14.8	0.0			G1/100
BL (0°-30°)	1502.9	5.1	B3/2500		
BM (30°-60°)	1861.4	6.3	B2/2500		
BH (60°-80°)	217.1	0.7	B1/500		G1/500
BVH (80°-90°)	16.3	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°	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0
2.5°	10342.1	10105.2	10126.7	9971.6	9881.2	9734.7	9536.6	9497.8	9282.5	8989.6	8692.3
5°	11272.5	11216.5	11289.7	11065.7	11074.3	10833.1	10367.9	10376.5	9881.2	9403.1	8942.2
7.5°	11332.8	11203.6	11276.8	11474.9	11591.2	11548.2	11285.4	11057.1	10587.6	9885.5	9213.5
10°	10148.2	10393.8	10471.3	10798.7	11263.9	11754.9	11724.8	11737.7	11345.7	10428.2	9446.1
12.5°	9437.5	9273.8	9536.6	9734.7	10436.8	11388.8	11823.8	11918.6	11948.7	10953.7	9678.7
15°	9114.5	9114.5	9157.5	9213.5	9721.8	10600.5	11487.9	11763.5	12413.9	11642.9	10044.9
17.5°	9316.9	9308.3	9368.6	9252.3	9441.8	10118.1	11177.7	11492.2	12935.1	12319.2	10333.5
20°	9932.9	9963.0	9924.3	9588.3	9601.2	10109.5	10833.1	11328.5	13288.3	12905.0	10716.8
22.5°	10790.1	10807.3	10587.6	10221.5	10113.8	10363.6	11031.3	11410.3	13572.6	13607.1	10833.1
25°	11780.8	11711.8	11668.8	11151.9	10824.5	11039.9	11479.2	11698.9	13749.2	14210.1	11164.8
27.5°	13154.8	13017.0	12754.2	12293.3	12052.1	11746.3	12060.7	12422.6	14253.2	15054.4	11526.6
30°	15183.6	15063.0	14550.4	13956.0	13322.8	13021.3	13120.4	13318.5	15162.1	16032.2	12004.7
32.5°	18237.6	17983.4	17242.5	16109.7	15248.2	14416.9	14391.0	14602.1	15976.2	17384.7	12573.3
35°	21601.6	21524.1	20434.3	19267.0	17600.1	16316.5	16338.0	16450.0	17535.5	19159.3	13318.5
37.5°	23837.2	24263.6	23570.1	22316.7	20916.8	19081.8	18616.6	18655.4	19676.2	21261.4	14662.4
40°	25564.5	25202.6	25284.5	24991.6	24035.3	22786.2	21756.7	21554.3	22153.0	23587.4	15997.7
42.5°	24810.7	24827.9	25331.9	26025.3	26262.3	26171.8	25120.8	24737.4	24272.2	25491.2	17268.4
45°	22682.8	23126.5	23781.2	25616.1	27227.1	28739.0	28532.3	27894.8	25736.8	26998.8	18000.7
47.5°	19288.6	19271.3	20343.9	22730.2	26309.6	29850.3	30789.3	30341.4	26774.8	26830.8	17849.9
48°	18035.1	18345.2	19452.2	22260.7	25728.1	29686.6	30991.8	30427.5	26598.2	26606.8	17720.7
50°	13331.4	13275.4	14653.8	18099.7	22980.0	27894.8	30138.9	30578.3	26593.9	25474.0	16816.1
52.5°	7042.6	7283.8	8287.4	11380.2	16247.5	22829.3	26585.3	27270.2	25654.9	23621.8	15515.3
55°	2993.6	2705.1	3476.1	5138.7	9140.3	15252.5	19503.9	21028.8	21692.1	20903.8	13572.6
57.5°	1068.2	1167.3	1343.9	1934.0	3842.2	8347.8	11630.0	12814.5	15028.5	15338.7	9248.0
60°	684.9	697.8	753.8	887.3	1443.0	3217.6	5517.8	6461.1	7464.7	7705.9	4316.0
62.5°	529.8	534.1	560.0	581.5	684.9	1249.1	2071.9	2455.2	2550.0	2192.5	1132.8
65°	443.7	448.0	456.6	456.6	486.7	585.8	723.6	796.9	775.3	766.7	641.8
67.5°	340.3	348.9	366.1	366.1	383.4	357.5	400.6	426.4	482.4	585.8	547.0
70°	267.1	271.4	284.3	292.9	292.9	258.4	288.6	314.4	353.2	435.0	430.7
72.5°	206.8	215.4	224.0	224.0	211.1	176.6	206.8	228.3	254.1	301.5	292.9
75°	159.4	159.4	163.7	133.5	103.4	90.5	124.9	150.8	189.5	198.1	163.7
77.5°	43.1	47.4	43.1	38.8	43.1	64.6	81.8	94.8	120.6	120.6	107.7
80°	0.0	4.3	12.9	25.8	43.1	60.3	73.2	81.8	94.8	103.4	99.1
82.5°	0.0	4.3	12.9	25.8	38.8	47.4	64.6	68.9	77.5	90.5	90.5
85°	0.0	4.3	8.6	17.2	25.8	30.2	30.2	25.8	25.8	21.5	17.2
87.5°	0.0	0.0	4.3	8.6	8.6	12.9	12.9	12.9	12.9	12.9	12.9
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°	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0
2.5°	8576.0	8442.5	8240.1	7921.3	7615.5	7417.4	7227.8	7016.8	6900.5	6891.8	6827.2
5°	8679.4	8377.9	7895.5	7348.4	6762.6	6258.7	5750.4	5418.7	5121.5	4957.8	4927.7
7.5°	8735.4	8343.4	7563.8	6646.3	5647.0	4824.3	4255.7	3837.9	3674.2	3553.6	3549.3
10°	8851.7	8283.1	7068.5	5715.9	4479.7	3648.4	3256.4	3066.9	2976.4	2942.0	2890.3
12.5°	8937.9	8171.1	6560.2	4759.7	3540.7	3023.8	2851.5	2808.4	2812.7	2830.0	2808.4
15°	9058.5	8072.1	5875.3	3906.8	2972.1	2722.3	2722.3	2730.9	2791.2	2799.8	2795.5
17.5°	9049.9	7878.2	5168.9	3217.6	2627.5	2593.1	2606.0	2687.8	2726.6	2739.5	2709.4
20°	9153.2	7697.3	4440.9	2748.1	2433.7	2485.4	2571.5	2593.1	2640.4	2649.1	2614.6
22.5°	9123.1	7245.1	3764.7	2377.7	2287.2	2386.3	2472.5	2498.3	2485.4	2459.5	2455.2
25°	9067.1	6857.4	3144.4	2132.2	2179.5	2287.2	2369.1	2321.7	2295.8	2300.2	2304.5
27.5°	8968.0	6366.3	2631.8	1959.9	2033.1	2192.5	2188.2	2170.9	2196.8	2175.2	2196.8
30°	8950.8	5875.3	2209.7	1804.8	1925.4	2041.7	2050.3	2080.5	2110.6	2071.9	2110.6
32.5°	8976.6	5336.9	1908.2	1710.0	1860.8	1865.1	1959.9	1990.0	1968.5	1882.3	1891.0
35°	9174.8	4923.4	1688.5	1658.4	1757.4	1761.7	1852.2	1813.4	1718.7	1667.0	1697.1
37.5°	9592.6	4578.8	1585.1	1611.0	1619.6	1675.6	1679.9	1602.4	1611.0	1606.7	1623.9
40°	10126.7	4316.0	1511.9	1567.9	1559.3	1598.0	1443.0	1486.1	1524.8	1537.7	1546.4
42.5°	10492.8	4126.5	1464.5	1499.0	1481.7	1412.8	1326.7	1369.8	1399.9	1447.3	1455.9
45°	10656.5	3975.7	1408.5	1378.4	1378.4	1253.5	1219.0	1227.6	1296.5	1348.2	1339.6
47.5°	10389.5	3829.3	1309.5	1219.0	1249.1	1145.8	1107.0	1107.0	1180.2	1244.8	1231.9
48°	10286.1	3769.0	1313.8	1184.5	1206.1	1128.5	1089.8	1081.2	1163.0	1223.3	1223.3
50°	9773.5	3545.0	1201.8	1089.8	1046.7	1038.1	1012.2	1020.9	1072.5	1128.5	1128.5
52.5°	8774.2	3062.6	1016.5	934.7	857.2	908.9	921.8	904.6	930.4	982.1	977.8
55°	7322.6	2351.8	814.1	775.3	715.0	771.0	796.9	775.3	749.5	788.3	788.3
57.5°	4690.8	1266.4	650.4	659.0	598.7	654.7	676.3	624.6	577.2	607.3	603.0
60°	2114.9	758.1	534.1	521.2	482.4	547.0	581.5	521.2	456.6	478.1	499.7
62.5°	792.6	538.4	404.9	396.3	387.7	448.0	465.2	417.8	353.2	366.1	370.4
65°	581.5	473.8	323.1	292.9	310.1	353.2	344.6	297.2	254.1	254.1	262.8
67.5°	495.4	413.5	262.8	228.3	228.3	232.6	215.4	189.5	176.6	185.2	193.8
70°	387.7	327.4	206.8	176.6	159.4	142.1	124.9	120.6	107.7	120.6	116.3
72.5°	249.8	219.7	159.4	133.5	120.6	99.1	81.8	77.5	64.6	60.3	60.3
75°	133.5	133.5	124.9	107.7	94.8	77.5	64.6	51.7	34.5	25.8	25.8
77.5°	94.8	103.4	112.0	103.4	86.1	64.6	51.7	34.5	17.2	8.6	8.6
80°	90.5	103.4	112.0	99.1	86.1	64.6	47.4	25.8	12.9	4.3	4.3
82.5°	81.8	94.8	103.4	90.5	77.5	56.0	43.1	25.8	12.9	4.3	4.3
85°	17.2	21.5	25.8	25.8	30.2	38.8	30.2	21.5	8.6	4.3	4.3
87.5°	12.9	12.9	12.9	12.9	12.9	12.9	8.6	8.6	4.3	4.3	4.3
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)