

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: P532063

Luminaire Tested: **GALN-SA7B-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532063  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-827-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19269 lumens  
Efficiency: N/A  
Efficacy: 67.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

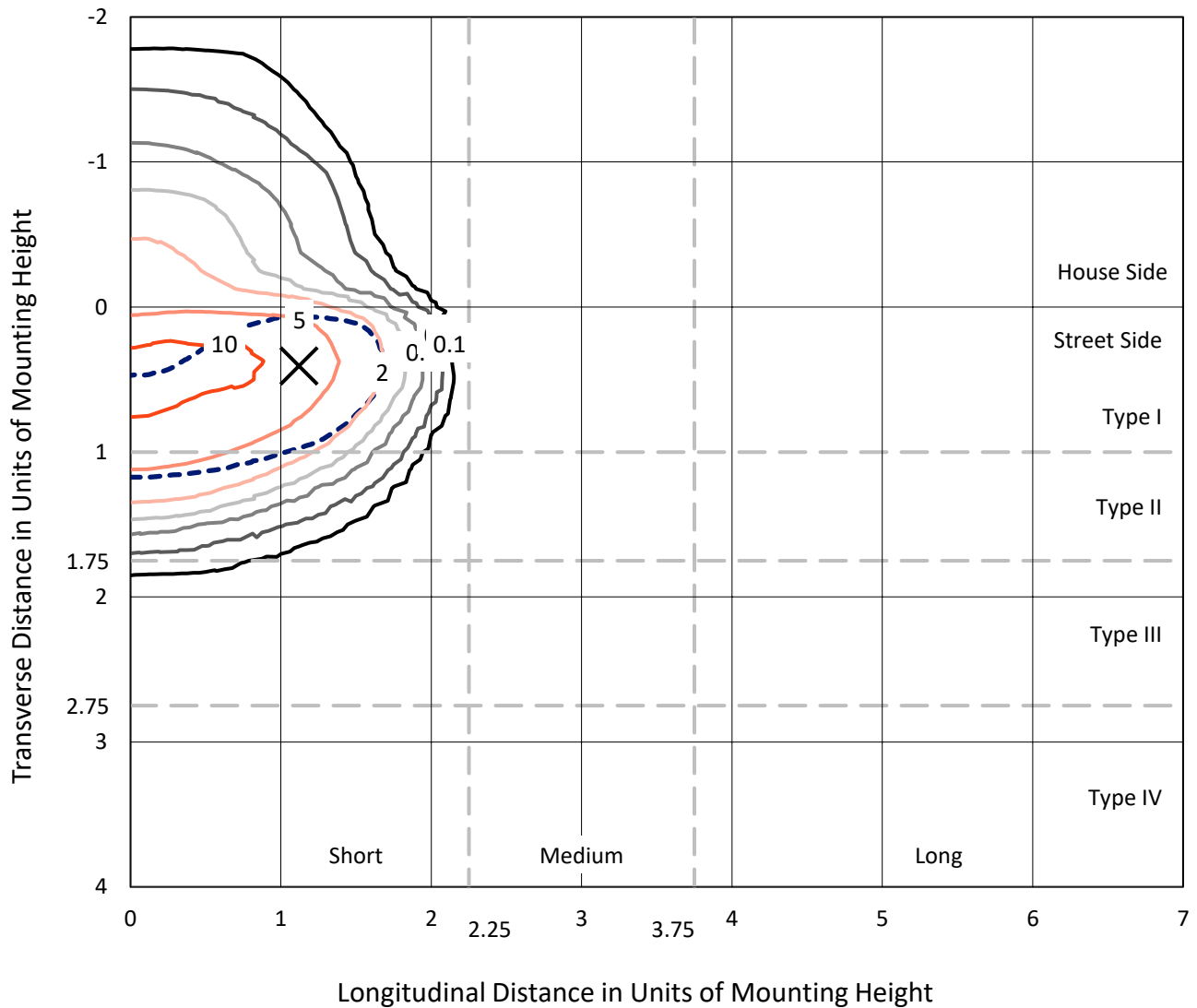
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

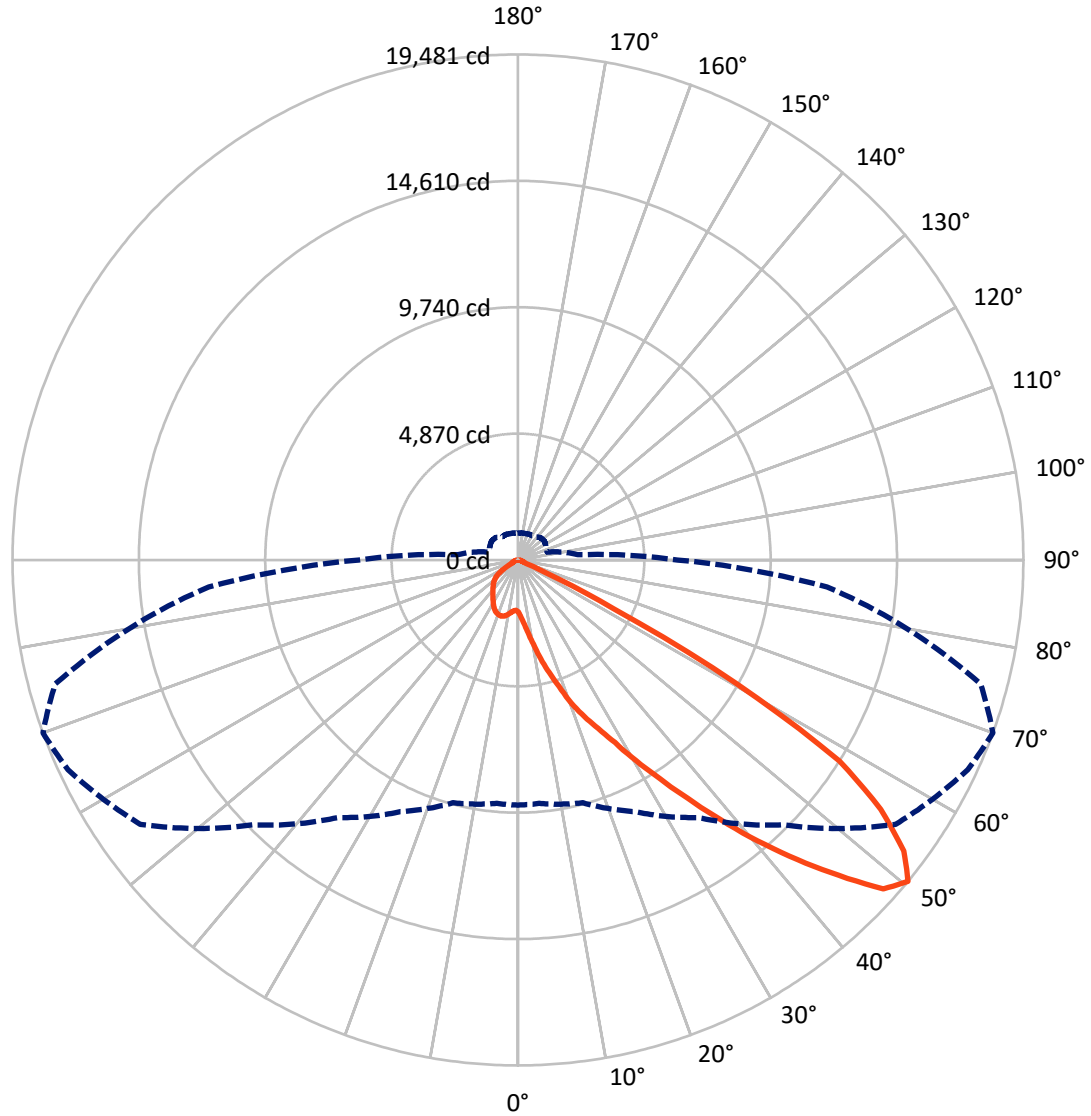
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2691.0	0.0	2691.0
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	16578.0	0.0	16578.0
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	19269.0	0.0	19269.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.5	1.3
10°-20°	1122.7	5.8
20°-30°	2355.2	12.2
30°-40°	4059.5	21.1
40°-50°	5933.0	30.8
50°-60°	4620.8	24.0
60°-70°	782.9	4.1
70°-80°	107.5	0.6
80°-90°	27.9	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°	19269.0	100.0
0°-180°	19269.0	100.0

**Coefficient of Utilization**



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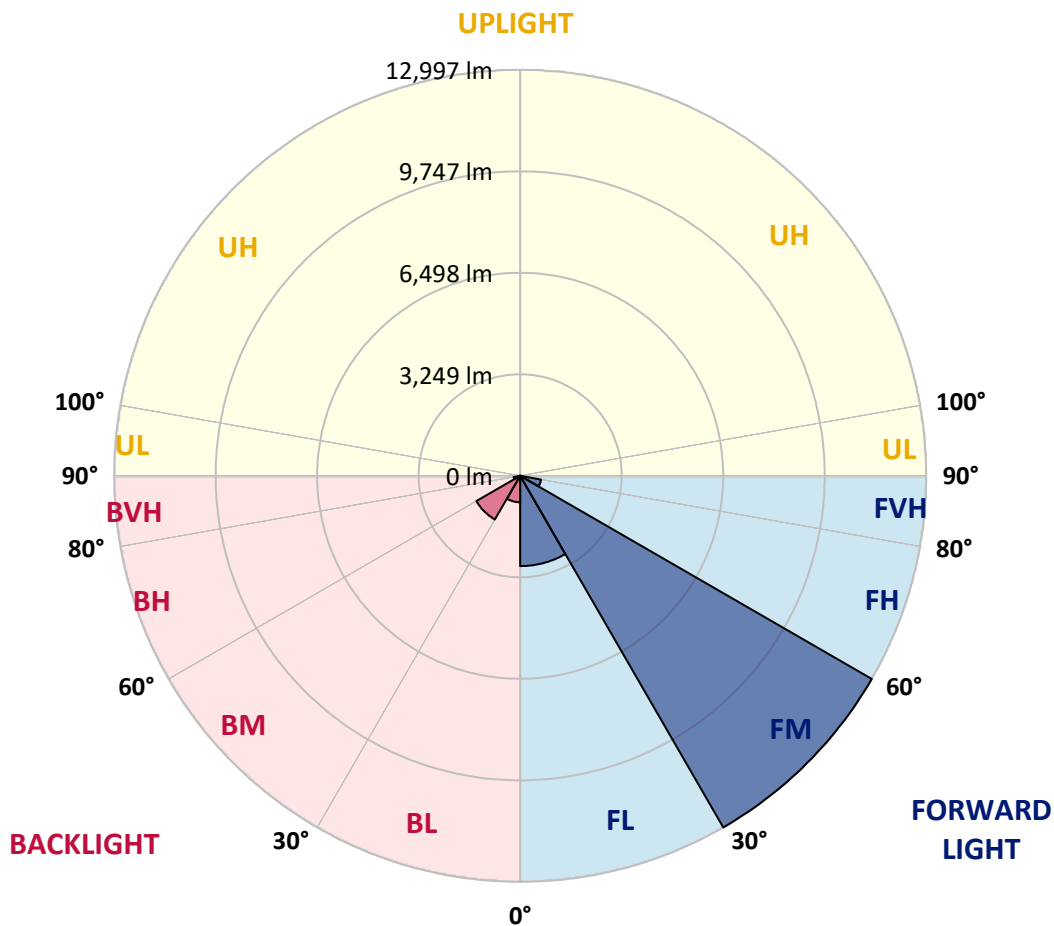
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2890.6	15.0			
FM (30°-60°)	12996.6	67.4			
FH (60°-80°)	677.9	3.5			G1/1800
FVH (80°-90°)	12.9	0.1			G1/100
BL (0°-30°)	846.8	4.4	B2/1000		
BM (30°-60°)	1616.7	8.4	B2/2500		
BH (60°-80°)	212.6	1.1	B1/500		G1/500
BVH (80°-90°)	15.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9
2.5°	2613.7	2594.7	2553.5	2477.4	2445.8	2369.7	2325.4	2239.8	2186.0	2125.8	2059.3
5°	3681.3	3583.1	3522.9	3437.4	3187.1	3031.9	2775.2	2556.6	2455.3	2344.4	2192.3
7.5°	4783.8	4720.4	4638.1	4454.3	4283.2	3960.1	3519.7	3038.2	2832.3	2642.2	2341.2
10°	5696.2	5518.8	5509.3	5373.1	5186.1	4799.6	4270.6	3671.8	3304.3	3025.5	2553.5
12.5°	6333.0	6171.4	6244.3	6228.4	6054.2	5699.4	5087.9	4295.9	3912.6	3478.5	2772.1
15°	6912.7	6846.2	6824.0	6805.0	6735.3	6472.4	5924.3	5056.3	4501.8	3979.1	3019.2
17.5°	7479.8	7308.8	7391.1	7407.0	7400.6	7163.0	6649.8	5778.6	5125.9	4508.2	3279.0
20°	7983.6	7999.4	7888.5	7866.3	7847.3	7837.8	7337.3	6494.6	5892.6	5062.6	3617.9
22.5°	8629.8	8519.0	8617.2	8553.8	8430.3	8354.2	7970.9	7128.2	6557.9	5731.1	3963.3
25°	9393.4	9482.1	9250.8	9225.4	9089.2	8826.3	8480.9	7837.8	7197.9	6352.0	4337.1
27.5°	10334.3	10179.0	10118.8	9979.4	9732.3	9621.5	9215.9	8569.7	7970.9	7004.6	4698.3
30°	11142.1	11100.9	10800.0	10635.2	10419.8	10416.6	9849.6	9561.3	8978.3	8027.9	5195.6
32.5°	11801.1	11620.5	11509.6	11395.6	11221.3	11268.9	10790.5	10638.4	10052.3	8978.3	5781.7
35°	12241.5	12111.6	12045.0	11870.8	11820.1	12032.4	11832.8	11769.4	11287.9	10315.3	6469.2
37.5°	12380.8	12422.0	12409.4	12190.8	12298.5	12871.9	13128.5	12963.8	12710.3	11725.1	7213.7
40°	12504.4	12532.9	12469.6	12726.2	13033.5	13686.1	14614.3	14341.9	14246.8	13153.9	8249.7
42.5°	12574.1	12551.9	12551.9	12995.5	13461.2	14772.7	16049.5	15868.9	15796.0	14674.5	9447.2
45°	12273.1	12057.7	12289.0	12890.9	13828.7	15308.2	17196.3	17446.6	17342.1	16483.5	10847.5
47.5°	11148.5	11281.5	11411.4	12216.1	13382.0	15143.4	17899.6	18751.9	18945.1	18004.2	11766.2
50°	9447.2	9418.7	9688.0	10701.8	12117.9	14433.8	17763.4	19128.9	19480.5	18460.4	11959.5
52.5°	6871.6	7080.7	7372.1	8379.6	10058.6	12596.3	16005.1	18156.3	18625.1	17899.6	11832.8
55°	4001.3	3770.0	4425.8	5278.0	6862.1	9501.1	13530.9	16093.8	16961.9	16879.5	11192.8
57.5°	1603.0	1552.4	1777.3	2395.1	3579.9	5889.5	9840.0	13223.6	14614.3	15460.2	9836.9
60°	703.3	687.5	807.9	975.8	1463.7	2715.0	5382.6	8224.3	9675.3	10803.1	6770.2
62.5°	506.9	500.6	560.7	620.9	773.0	1181.7	2262.0	3313.8	4131.2	4989.7	3031.9
65°	408.7	424.5	465.7	497.4	570.3	655.8	798.4	921.9	1131.0	1172.2	668.5
67.5°	332.6	345.3	383.3	418.2	430.9	354.8	367.5	323.1	323.1	288.3	231.3
70°	243.9	247.1	291.5	332.6	266.1	142.6	250.3	250.3	224.9	215.4	196.4
72.5°	180.6	183.7	218.6	205.9	104.5	88.7	183.7	202.8	183.7	174.2	158.4
75°	133.1	136.2	114.1	47.5	44.4	57.0	107.7	139.4	133.1	129.9	120.4
77.5°	25.3	19.0	15.8	22.2	31.7	47.5	69.7	85.5	88.7	95.0	88.7
80°	3.2	3.2	9.5	19.0	34.8	50.7	72.9	82.4	85.5	88.7	82.4
82.5°	0.0	3.2	9.5	19.0	34.8	47.5	63.4	72.9	79.2	82.4	79.2
85°	0.0	3.2	6.3	15.8	28.5	34.8	31.7	22.2	19.0	22.2	15.8
87.5°	0.0	0.0	3.2	3.2	6.3	6.3	6.3	6.3	6.3	6.3	6.3
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°	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9
2.5°	2021.2	2008.6	1964.2	1916.7	1875.5	1894.5	1875.5	1859.7	1866.0	1859.7	1853.3
5°	2132.1	2075.1	1980.0	1938.9	1904.0	1900.8	1891.3	1888.2	1891.3	1891.3	1862.8
7.5°	2236.7	2144.8	2043.4	1999.1	1957.9	1961.0	1938.9	1938.9	1935.7	1919.9	1913.5
10°	2395.1	2271.5	2141.6	2062.4	2011.7	2002.2	1980.0	1957.9	1957.9	1957.9	1926.2
12.5°	2569.3	2414.1	2236.7	2144.8	2084.6	2037.1	2002.2	1995.9	1961.0	1954.7	1938.9
15°	2721.4	2525.0	2300.0	2173.3	2097.3	2033.9	1980.0	1945.2	1929.4	1919.9	1907.2
17.5°	2870.3	2620.0	2334.9	2173.3	2090.9	2018.1	1961.0	1929.4	1891.3	1897.7	1872.3
20°	3069.9	2721.4	2344.4	2132.1	2030.7	1961.0	1885.0	1869.2	1847.0	1828.0	1834.3
22.5°	3263.1	2794.2	2315.9	2081.4	1935.7	1853.3	1815.3	1796.3	1786.8	1771.0	1748.8
25°	3437.4	2873.4	2271.5	1989.6	1834.3	1774.1	1739.3	1736.1	1713.9	1713.9	1672.7
27.5°	3614.8	2902.0	2195.5	1881.8	1745.6	1710.8	1694.9	1688.6	1679.1	1656.9	1628.4
30°	3817.5	2911.5	2084.6	1771.0	1666.4	1628.4	1650.6	1666.4	1625.2	1584.0	1596.7
32.5°	3985.4	2889.3	1951.5	1666.4	1609.4	1590.4	1634.7	1650.6	1603.0	1558.7	1536.5
35°	4188.2	2835.4	1821.6	1584.0	1552.4	1590.4	1628.4	1628.4	1533.3	1479.5	1466.8
37.5°	4495.5	2775.2	1701.3	1514.3	1492.2	1571.4	1622.1	1587.2	1438.3	1371.8	1355.9
40°	4825.0	2737.2	1584.0	1444.6	1460.5	1539.7	1568.2	1460.5	1308.4	1267.2	1254.6
42.5°	5303.4	2661.2	1479.5	1384.4	1432.0	1495.3	1495.3	1302.1	1245.1	1222.9	1219.7
45°	5899.0	2607.3	1387.6	1333.8	1390.8	1406.6	1355.9	1219.7	1178.5	1172.2	1175.4
47.5°	6190.4	2502.8	1292.6	1273.6	1314.8	1317.9	1184.9	1153.2	1118.3	1108.8	1102.5
50°	6146.1	2315.9	1169.0	1194.4	1251.4	1219.7	1080.3	1086.7	1055.0	1051.8	1036.0
52.5°	5835.6	2021.2	1045.5	1105.7	1169.0	1077.1	994.8	988.4	988.4	947.3	931.4
55°	5173.5	1628.4	896.6	972.6	1048.6	906.1	883.9	877.6	861.7	823.7	814.2
57.5°	4096.3	1194.4	674.8	757.2	890.2	769.8	766.7	738.2	697.0	668.5	668.5
60°	2436.3	687.5	424.5	462.5	589.3	624.1	693.8	681.1	611.4	567.1	554.4
62.5°	1112.0	354.8	269.3	275.6	316.8	405.5	544.9	630.4	532.2	456.2	449.9
65°	373.8	263.0	221.8	212.3	218.6	243.9	326.3	446.7	424.5	351.7	339.0
67.5°	228.1	234.4	209.1	193.3	193.3	190.1	186.9	202.8	250.3	243.9	247.1
70°	196.4	215.4	193.3	174.2	167.9	158.4	133.1	110.9	95.0	110.9	117.2
72.5°	158.4	171.1	164.7	148.9	133.1	120.4	95.0	72.9	53.9	47.5	47.5
75°	117.2	126.7	133.1	114.1	101.4	85.5	69.7	47.5	28.5	19.0	19.0
77.5°	85.5	95.0	98.2	88.7	76.0	60.2	44.4	31.7	15.8	6.3	6.3
80°	72.9	85.5	95.0	88.7	79.2	57.0	41.2	22.2	12.7	3.2	3.2
82.5°	69.7	85.5	95.0	85.5	76.0	53.9	41.2	25.3	9.5	3.2	3.2
85°	15.8	22.2	28.5	34.8	41.2	41.2	31.7	19.0	9.5	3.2	3.2
87.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	3.2	3.2	0.0
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)