

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: P652582

Luminaire Tested: **GALN-SA8B-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39543.8 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

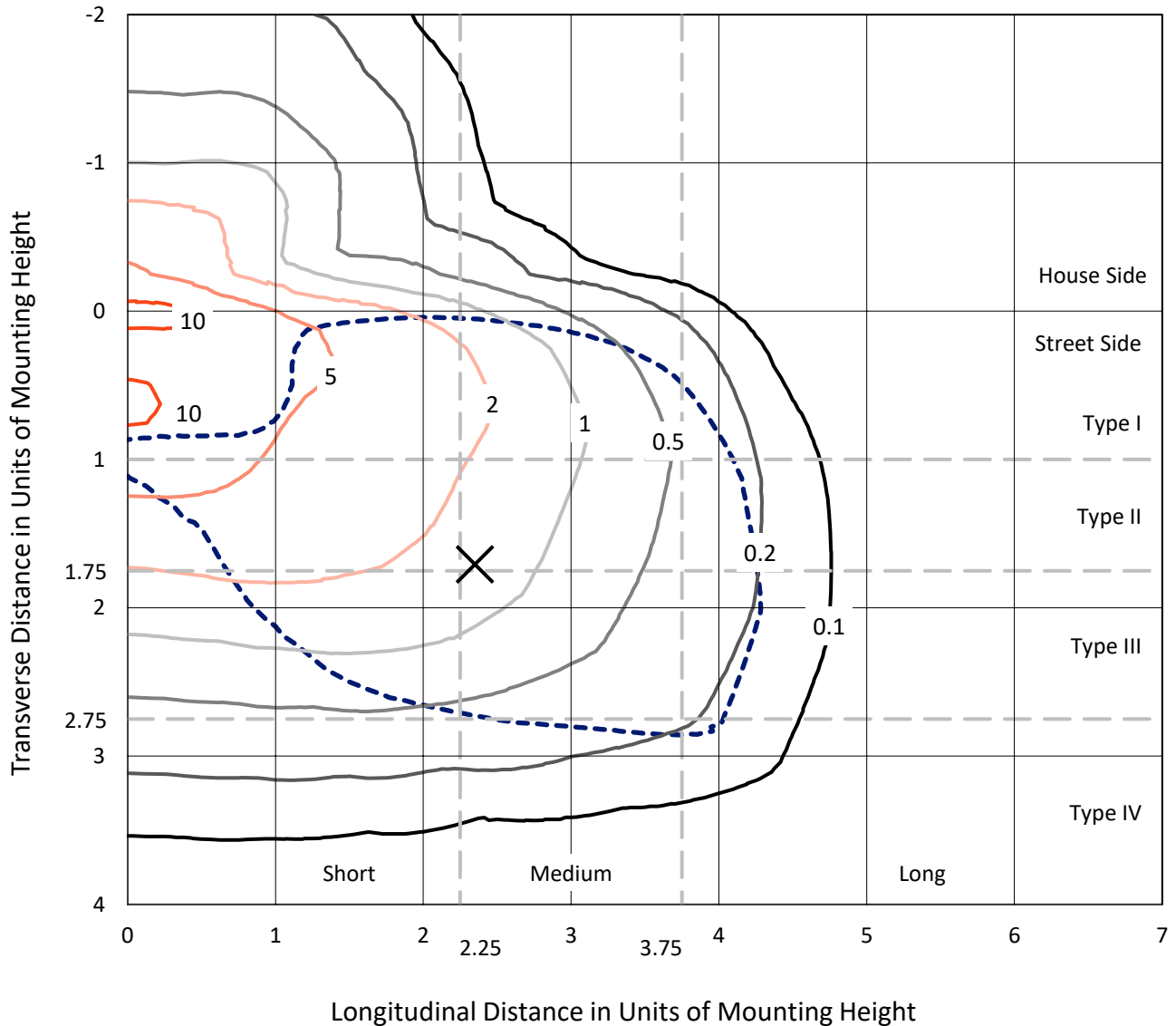
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

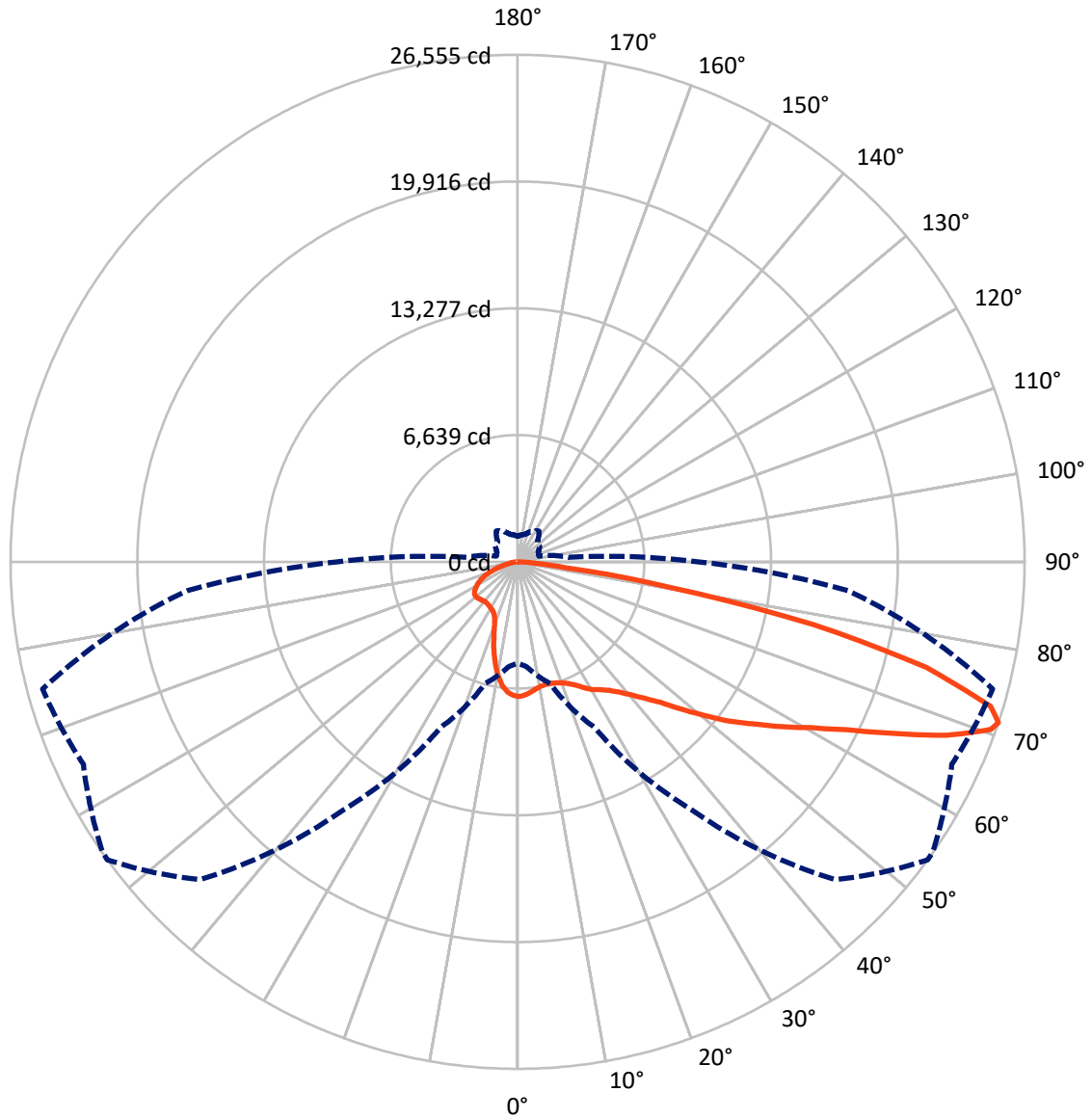
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7139.4	0.0	7139.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	32404.4	0.0	32404.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	39543.8	0.0	39543.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.7	1.6
10°-20°	1660.2	4.2
20°-30°	2764.2	7.0
30°-40°	4087.4	10.3
40°-50°	5757.2	14.6
50°-60°	7709.2	19.5
60°-70°	9716.8	24.6
70°-80°	6636.5	16.8
80°-90°	583.6	1.5
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°	39543.8	100.0
0°-180°	39543.8	100.0

Coefficient of Utilization

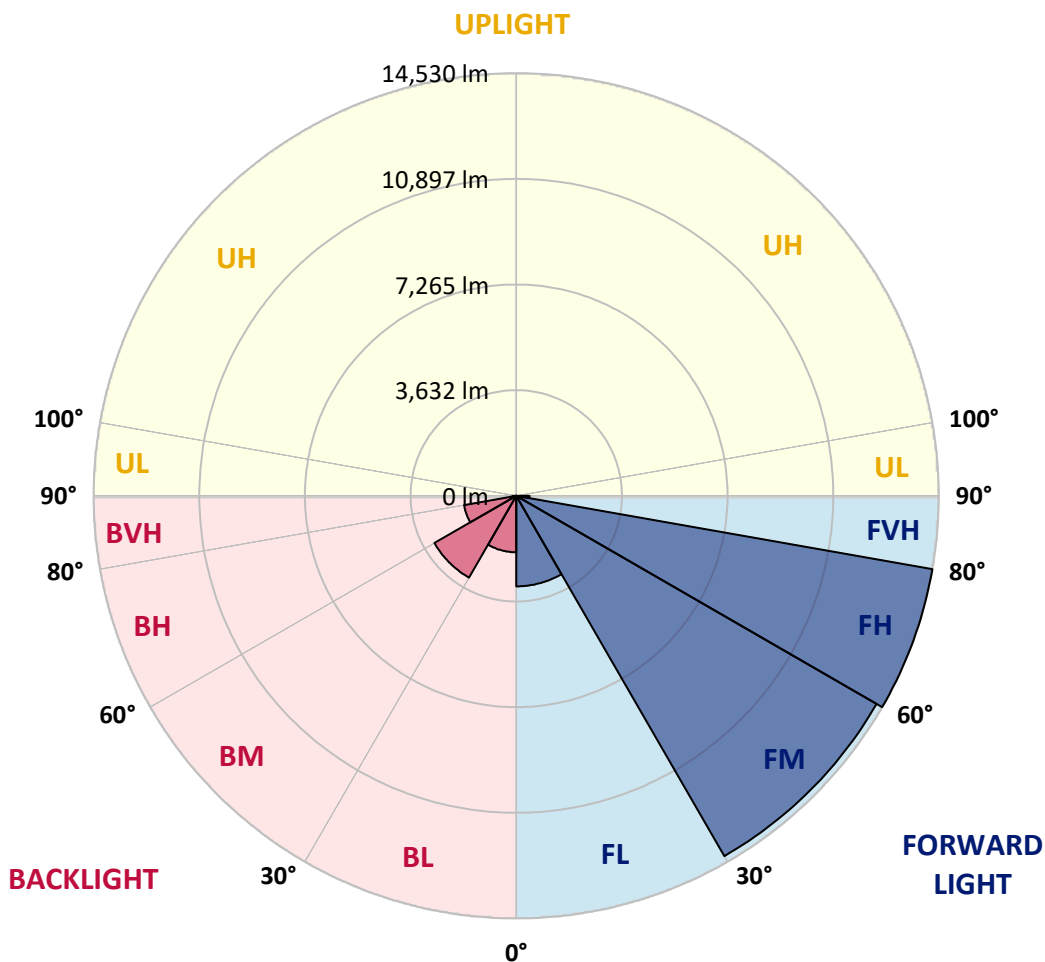


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3112.7	7.9			
FM (30°-60°)	14305.5	36.2			
FH (60°-80°)	14530.0	36.7			G5
FVH (80°-90°)	456.2	1.2			G3/500
BL (0°-30°)	1940.4	4.9	B3/2500		
BM (30°-60°)	3248.2	8.2	B3/5000		
BH (60°-80°)	1823.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	127.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7055.2	7055.2	7055.2	7055.2	7055.2	7055.2	7055.2	7055.2	7055.2	7055.2	7055.2
2.5°	6816.0	6848.0	6856.6	6878.0	6922.8	6959.1	6995.4	6991.1	7042.4	7063.7	7083.0
5°	6512.6	6521.2	6553.2	6596.0	6675.0	6775.3	6873.7	6875.8	7001.8	7102.2	7151.4
7.5°	6290.5	6318.3	6339.6	6384.5	6467.8	6576.7	6732.6	6745.5	6969.8	7168.4	7273.1
10°	6145.3	6177.3	6200.8	6256.4	6339.6	6461.4	6630.1	6653.7	6946.2	7273.1	7456.8
12.5°	6012.8	6044.9	6066.2	6138.9	6247.8	6397.3	6587.4	6615.2	6954.8	7394.8	7657.6
15°	6094.0	6119.6	6111.1	6132.5	6205.1	6376.0	6604.5	6632.3	6986.9	7512.3	7856.2
17.5°	6455.0	6476.4	6405.9	6324.7	6290.5	6416.6	6657.9	6687.8	7050.9	7634.1	8059.1
20°	6986.9	7044.6	6890.7	6709.2	6544.7	6561.8	6769.0	6801.0	7140.7	7755.8	8266.3
22.5°	7678.9	7721.6	7533.7	7234.6	6931.4	6775.3	6935.6	6954.8	7275.2	7913.9	8492.8
25°	8492.8	8518.3	8257.8	7873.3	7435.4	7140.7	7164.1	7198.3	7497.3	8093.3	8693.5
27.5°	9283.0	9364.2	9063.0	8593.1	8016.4	7525.1	7478.2	7499.4	7738.7	8193.7	8832.4
30°	10220.8	10214.4	9896.0	9351.4	8612.3	7943.7	7775.0	7770.8	7869.0	8242.8	8932.8
32.5°	10968.3	11056.0	10744.1	10150.3	9293.7	8377.4	7980.1	7971.6	7969.4	8328.3	9082.3
35°	11818.5	11831.3	11545.1	10947.0	10030.6	8922.1	8266.3	8223.6	8174.4	8511.9	9285.1
37.5°	12578.9	12638.7	12376.0	11705.3	10754.8	9488.1	8659.4	8631.6	8482.1	8830.2	9609.9
40°	13172.7	13217.6	13059.5	12420.8	11468.2	10099.0	9159.2	9107.9	8926.4	9351.4	10043.5
42.5°	13367.1	13458.9	13520.8	13206.9	12288.4	10823.1	9774.4	9710.3	9571.4	10141.7	10543.3
45°	13382.0	13527.3	13854.0	13869.0	13112.9	11690.3	10492.1	10447.2	10436.5	11154.2	11246.0
47.5°	13268.8	13416.2	13965.1	14262.1	13847.7	12566.1	11528.0	11457.5	11463.9	12405.8	12034.2
50°	12995.4	13170.6	13837.0	14514.1	14422.2	13476.0	12621.6	12598.1	12730.6	13834.9	12852.3
52.5°	12480.6	12692.1	13704.6	14672.2	14849.5	14259.9	13864.7	13798.5	14133.9	15385.6	13747.3
55°	11056.0	11374.2	13219.7	14759.7	15255.3	15009.7	14984.0	15103.7	15547.9	17077.3	14732.0
57.5°	10312.6	10551.9	12166.7	14774.7	15767.9	15881.1	16291.3	16321.2	17098.7	18873.7	15844.9
60°	9906.7	10118.2	11589.9	14676.5	16483.5	16959.9	17628.4	17735.2	18613.1	20819.5	16998.3
62.5°	9552.2	9733.7	11243.9	14336.9	17290.9	18559.7	19360.7	19412.0	20332.6	22968.4	18136.8
65°	8717.0	8924.2	10547.6	13997.2	17987.2	20559.0	21659.0	21599.2	22163.1	24822.5	18850.2
67.5°	7591.4	7854.1	9246.7	12824.5	18331.1	22744.1	24247.9	24173.1	23970.2	26037.8	19055.2
70°	6153.8	6294.8	7582.8	10797.4	16957.7	23891.1	26292.0	26213.0	25089.5	26198.0	18085.5
71°	5295.1	5515.1	6602.4	9590.6	15814.9	23540.9	26554.7	26533.4	25091.6	25755.9	17355.0
72.5°	4133.2	4267.7	5228.9	7431.2	13441.9	21550.1	25905.4	25986.6	24546.9	24527.7	15849.1
75°	2614.5	2674.3	3280.9	4374.5	7375.6	15261.7	22114.0	22334.0	21795.7	20076.3	11786.4
77.5°	1518.7	1595.6	1965.1	2578.2	3186.9	8283.4	15823.5	16062.7	15144.2	11053.8	4825.2
80°	884.3	969.8	1294.4	1497.3	1463.2	3073.7	8056.9	8465.0	6557.5	2791.8	1354.3
82.5°	491.3	548.9	910.0	912.1	779.6	1003.9	2535.4	2652.9	1871.1	1125.7	553.2
85°	356.8	403.7	587.4	531.8	373.8	431.4	882.2	924.8	756.1	474.2	179.4
87.5°	126.1	179.4	322.5	256.3	102.5	89.7	254.2	207.2	192.3	132.5	40.6
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°	7055.2	7055.2	7055.2	7055.2	7055.2	7055.2	7055.2	7055.2	7055.2	7055.2	7055.2
2.5°	7093.7	7098.0	7076.6	7038.1	6999.6	6950.5	6895.0	6852.3	6833.0	6830.9	6828.8
5°	7170.5	7181.2	7100.1	6980.5	6848.0	6685.7	6546.8	6388.7	6348.2	6284.1	6303.3
7.5°	7294.4	7288.0	7127.8	6873.7	6563.9	6220.0	5929.6	5760.8	5585.7	5536.5	5538.7
10°	7471.7	7431.2	7127.8	6655.8	6138.9	5628.4	5222.5	4966.2	4827.3	4712.0	4669.3
12.5°	7659.7	7557.1	7059.4	6350.3	5592.1	4966.2	4530.5	4184.4	4094.7	4000.7	4002.8
15°	7839.1	7668.2	6924.9	5921.0	5002.5	4259.2	3836.2	3629.1	3601.3	3612.0	3609.8
17.5°	8001.4	7747.3	6719.8	5442.5	4314.8	3652.5	3428.3	3443.2	3518.0	3571.4	3577.8
20°	8165.9	7794.2	6414.4	4801.7	3665.4	3285.2	3293.7	3411.2	3524.4	3597.0	3607.7
22.5°	8321.9	7815.6	6055.5	4182.3	3195.5	3129.3	3255.3	3381.3	3492.3	3562.8	3573.5
25°	8424.4	7766.5	5547.2	3535.1	2964.8	3073.7	3206.1	3313.0	3406.9	3479.6	3496.6
27.5°	8452.1	7608.4	4917.1	3011.8	2858.0	3020.3	3142.1	3221.1	3293.7	3362.1	3374.8
30°	8437.2	7375.6	4225.0	2704.2	2796.0	2958.4	3052.3	3110.0	3197.6	3251.0	3261.7
32.5°	8413.7	7104.3	3503.0	2539.7	2744.8	2900.7	2956.2	3007.5	3005.3	2984.0	2998.9
35°	8422.3	6779.6	2917.8	2441.4	2699.9	2858.0	2905.0	2840.9	2657.2	2648.6	2640.1
37.5°	8467.1	6459.3	2492.7	2373.1	2676.4	2851.6	2877.2	2582.5	2420.1	2345.3	2326.1
40°	8582.4	6085.5	2212.9	2321.8	2674.3	2900.7	2751.2	2452.1	2140.3	1995.0	1984.3
42.5°	8736.2	5718.0	2042.0	2289.8	2699.9	2975.5	2699.9	2268.4	1928.8	1843.4	1830.5
45°	8964.8	5297.3	1948.0	2274.8	2738.4	3003.2	2682.8	2133.9	1843.4	1775.0	1775.0
47.5°	9223.2	4895.7	1896.8	2264.1	2787.5	2984.0	2531.2	2091.1	1802.8	1811.3	1851.9
50°	9479.6	4547.5	1858.4	2240.7	2830.2	2973.3	2469.2	2089.0	1813.4	1922.4	1995.0
52.5°	9776.5	4301.9	1811.3	2202.2	2830.2	2905.0	2450.0	2131.8	1843.4	1875.4	1907.5
55°	10135.3	4225.0	1751.6	2118.9	2778.9	2734.1	2439.3	2193.7	1864.7	1790.0	1802.8
57.5°	10609.5	4348.9	1693.9	2014.3	2661.4	2556.8	2435.0	2210.7	1815.6	1753.7	1740.9
60°	11160.6	4594.6	1676.8	1907.5	2501.2	2405.2	2409.4	2161.6	1747.3	1683.2	1693.9
62.5°	11547.2	4741.9	1666.1	1826.3	2326.1	2238.5	2347.5	2101.8	1717.3	1661.8	1672.5
65°	11547.2	4562.5	1567.8	1702.4	2099.7	2037.7	2272.7	2027.1	1678.9	1614.8	1604.1
67.5°	11109.4	4039.2	1418.3	1516.6	1849.8	1809.2	2168.0	1937.3	1621.2	1572.1	1546.4
70°	9968.7	3063.0	1230.3	1298.7	1533.6	1570.0	2033.5	1815.6	1525.1	1465.3	1426.8
71°	9466.7	2667.8	1151.3	1187.6	1411.9	1465.3	1969.4	1764.3	1482.3	1396.9	1328.6
72.5°	8499.1	2247.1	1031.7	1046.6	1206.8	1303.0	1834.8	1666.1	1401.2	1279.5	1202.5
75°	6457.1	1640.5	830.9	822.3	892.8	1033.8	1552.9	1484.5	1228.2	1063.7	1018.9
77.5°	2789.6	892.8	621.6	628.0	606.6	783.9	1221.8	1275.2	1053.0	865.1	824.5
80°	845.9	514.8	425.0	433.6	405.9	525.5	860.8	999.6	845.9	672.8	617.3
82.5°	433.6	307.6	290.5	286.2	258.4	296.9	521.2	683.5	604.5	420.8	371.6
85°	188.0	164.5	143.1	138.8	121.8	106.8	185.9	341.8	320.4	235.0	224.3
87.5°	47.0	42.7	27.8	25.7	15.0	2.1	0.0	0.0	0.0	0.0	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)