

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: P457886

Luminaire Tested: **GALN-SA9B-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45985 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

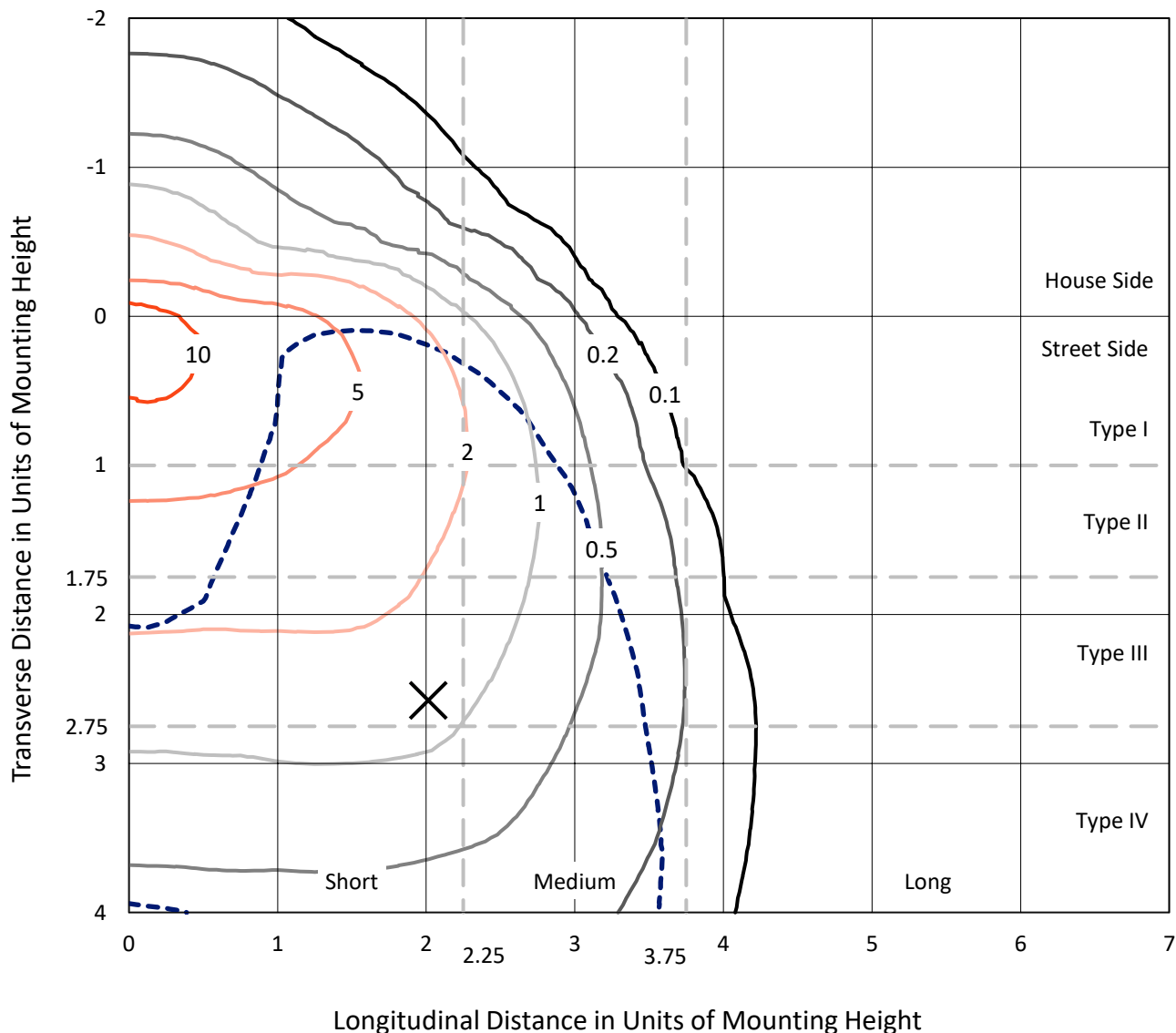
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

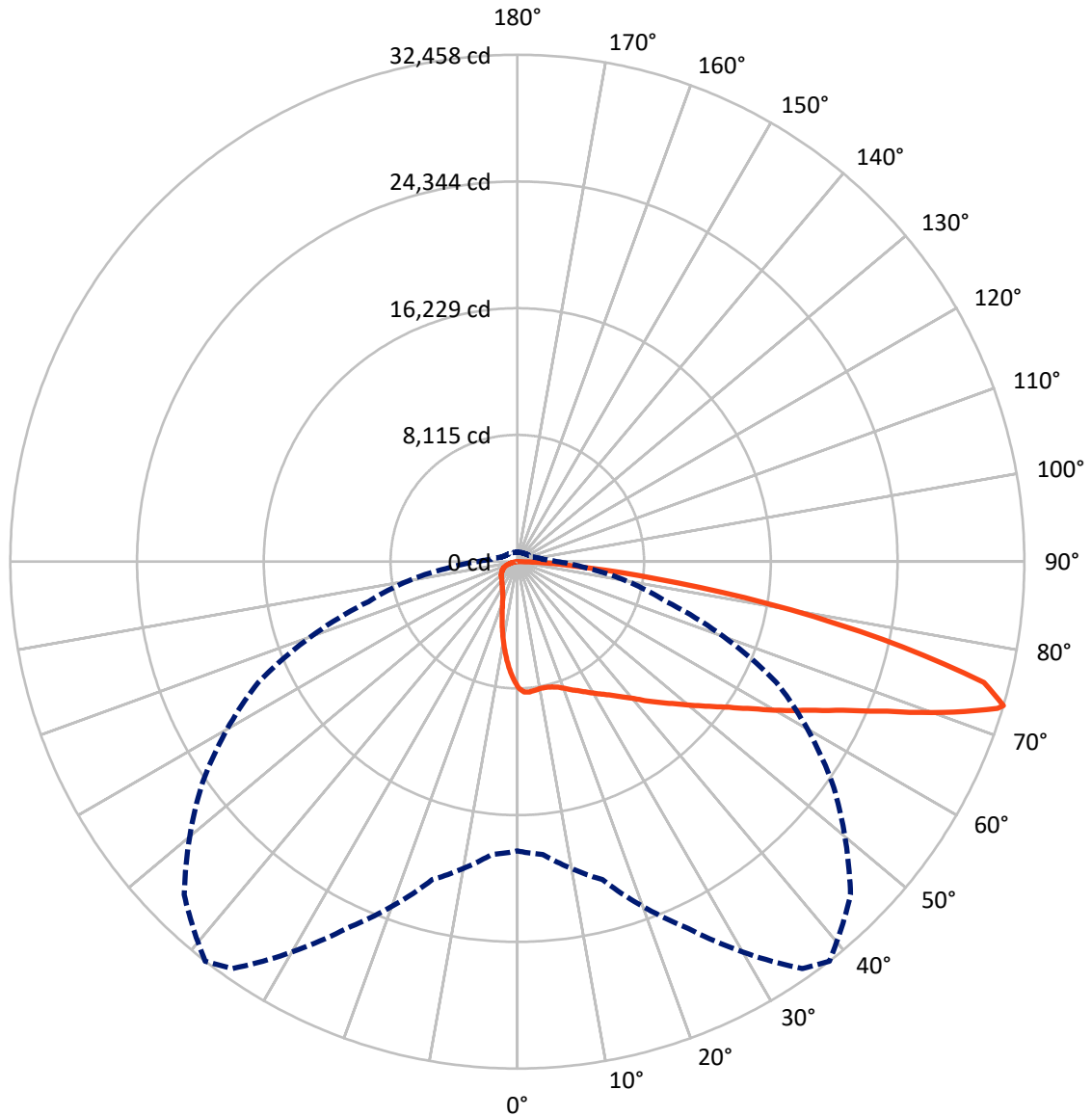
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6181.8	0.0	6181.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	39803.3	0.0	39803.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	45985.0	0.0	45985.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.2	1.5
10°-20°	1808.3	3.9
20°-30°	2815.9	6.1
30°-40°	4130.3	9.0
40°-50°	6126.9	13.3
50°-60°	8680.5	18.9
60°-70°	11011.5	23.9
70°-80°	9166.3	19.9
80°-90°	1540.1	3.3
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°	45985.0	100.0
0°-180°	45985.0	100.0

Coefficient of Utilization



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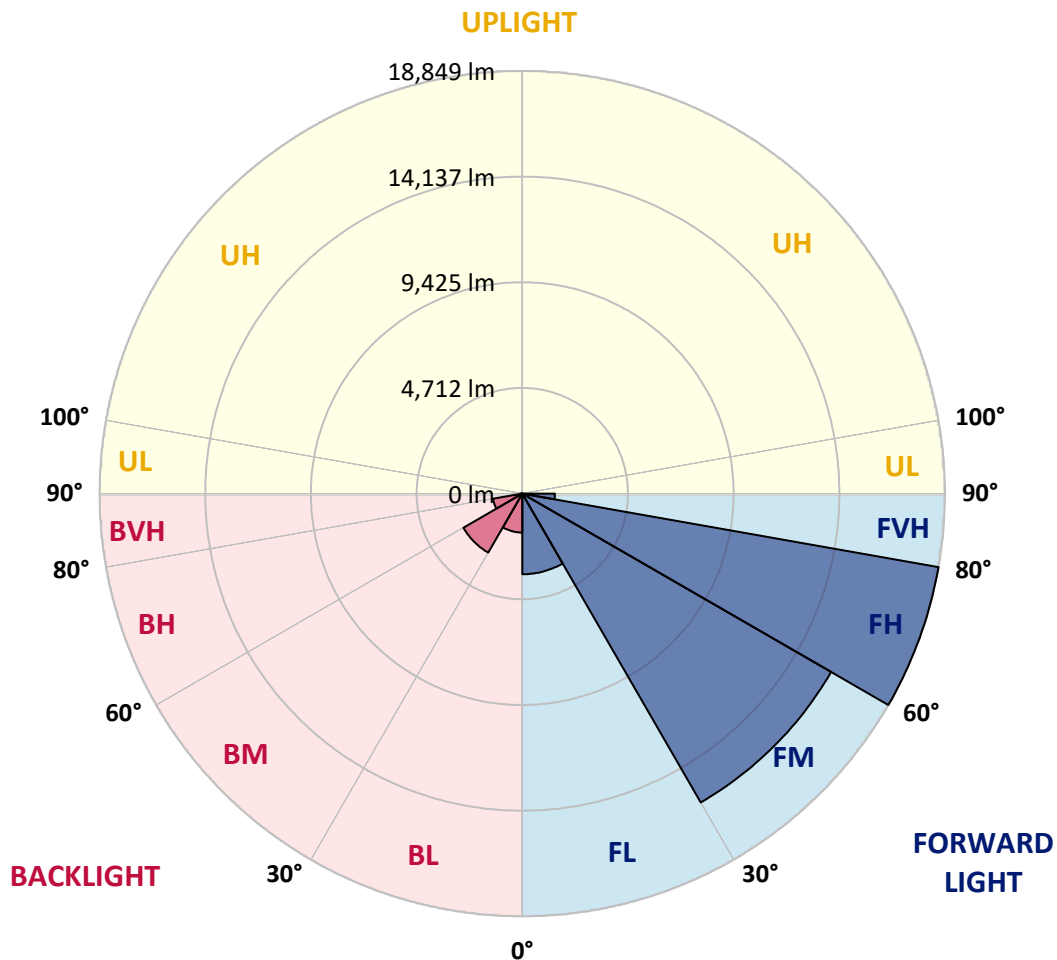
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3594.8	7.8			
FM (30°-60°)	15902.9	34.6			
FH (60°-80°)	18849.1	41.0			G5
FVH (80°-90°)	1456.6	3.2			G5
BL (0°-30°)	1734.7	3.8	B3/2500		
BM (30°-60°)	3034.9	6.6	B3/5000		
BH (60°-80°)	1328.7	2.9	B3/2500		G3/2500
BVH (80°-90°)	83.5	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	8078.8	8078.8	8078.8	8078.8	8078.8	8078.8	8078.8	8078.8	8078.8	8078.8	8078.8
2.5°	8403.4	8444.9	8424.2	8395.6	8377.4	8359.2	8333.3	8258.0	8198.2	8133.3	8032.0
5°	8465.7	8491.7	8473.5	8437.1	8395.6	8377.4	8328.1	8229.4	8133.3	8024.3	7873.6
7.5°	8429.4	8439.7	8419.0	8374.8	8338.5	8304.7	8247.6	8138.5	8021.7	7889.2	7691.9
10°	8299.5	8338.5	8338.5	8302.1	8265.8	8247.6	8190.4	8086.6	7980.1	7829.5	7595.8
12.5°	8193.0	8234.6	8268.4	8258.0	8255.4	8255.4	8211.2	8133.3	8008.7	7865.8	7588.0
15°	8120.3	8169.7	8242.4	8283.9	8309.9	8317.7	8299.5	8232.0	8104.8	7938.6	7619.1
17.5°	8104.8	8164.5	8296.9	8387.8	8455.3	8452.7	8447.5	8354.1	8213.8	8042.4	7658.1
20°	8174.9	8252.8	8437.1	8580.0	8678.7	8660.5	8631.9	8509.9	8346.3	8154.1	7694.5
22.5°	8385.2	8465.7	8668.3	8824.1	8920.2	8920.2	8834.5	8673.5	8499.5	8283.9	7743.8
25°	8686.4	8774.7	8990.3	9148.7	9192.8	9159.1	9073.4	8878.6	8678.7	8470.9	7847.7
27.5°	9055.2	9161.7	9361.6	9494.1	9481.1	9455.1	9366.8	9117.5	8917.6	8728.0	8024.3
30°	9514.8	9592.7	9800.5	9831.7	9784.9	9779.7	9655.1	9405.8	9218.8	9073.4	8276.1
32.5°	9948.5	10018.6	10184.8	10197.8	10114.7	10125.1	10008.2	9779.7	9673.2	9621.3	8699.4
35°	10408.2	10444.5	10587.3	10571.8	10517.2	10509.4	10462.7	10244.6	10278.3	10371.8	9299.3
37.5°	10792.5	10865.2	10945.7	10958.7	10956.1	10982.1	11013.2	10909.3	11104.1	11397.6	10086.1
40°	11145.7	11208.0	11327.4	11369.0	11470.3	11522.2	11628.7	11631.3	12080.5	12563.5	11054.8
42.5°	11384.6	11491.0	11714.4	11789.7	12036.4	12192.2	12350.6	12519.4	13171.2	13791.8	12197.4
45°	11592.3	11732.5	12103.9	12337.6	12672.6	12862.2	13197.2	13550.3	14487.8	15300.6	13358.2
47.5°	11906.5	12031.2	12457.1	12870.0	13376.3	13594.5	14095.7	14622.8	15848.5	16739.3	14469.6
50°	12342.8	12418.1	12851.8	13524.4	14171.0	14451.4	15113.6	15874.5	17302.8	18159.7	15446.0
52.5°	12901.1	12932.3	13277.7	14173.6	15025.3	15373.3	16251.1	17139.2	18575.2	19393.2	16219.9
55°	13560.7	13508.8	13778.9	14861.7	16001.8	16456.2	17398.9	18419.4	20006.1	20390.4	16783.4
57.5°	14212.5	14132.0	14347.6	15697.9	17206.7	17754.6	18853.1	19738.6	21283.7	21322.7	17178.1
60°	14903.3	14843.6	15100.7	16679.5	18684.3	19333.5	20348.9	21107.2	22519.8	21971.9	17240.5
62.5°	15612.2	15516.1	15882.3	17783.2	20348.9	20938.4	21922.6	22561.4	23732.6	22213.4	16640.6
65°	16300.4	16256.3	16822.4	19094.6	22244.6	22914.6	23870.2	24303.9	24703.8	21849.9	15152.6
67.5°	17032.7	17121.0	18024.7	20844.9	24716.8	25558.1	26589.1	26181.4	24981.6	20128.1	12760.9
70°	18149.4	18206.5	19603.6	23137.9	27903.1	28918.5	29417.1	26848.8	23641.7	16858.7	9592.7
72.5°	18629.8	18881.7	21013.7	25545.2	31523.1	32143.7	30367.5	25360.8	19694.5	11452.1	5040.5
73°	18523.3	18824.5	21078.6	25911.3	31806.2	32458.0	30165.0	24594.7	18307.8	9862.8	4321.2
75°	17196.3	17567.7	20234.6	25604.9	31255.6	30866.1	26908.5	20961.7	12371.4	4484.8	1968.4
77.5°	13568.5	13675.0	16032.9	20676.1	24612.9	23891.0	20138.5	13101.1	5053.5	1667.2	1116.6
80°	6806.3	7198.5	9037.0	11844.2	16458.8	16222.5	12711.6	6196.1	2106.0	979.0	740.1
82.5°	3274.6	3552.5	4401.7	5775.4	9094.2	8878.6	6294.8	3386.3	1337.4	571.3	436.3
85°	2108.6	2316.4	2802.0	2755.3	3739.5	3570.7	2828.0	2563.1	792.0	298.6	303.8
87.5°	1391.9	1524.3	1828.2	1462.0	1360.7	1230.9	1249.1	1443.8	155.8	114.3	41.5
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°	8078.8	8078.8	8078.8	8078.8	8078.8	8078.8	8078.8	8078.8	8078.8	8078.8	8078.8
2.5°	7990.5	7956.7	7845.1	7736.0	7632.1	7533.4	7468.5	7382.8	7325.7	7341.3	7364.7
5°	7790.5	7715.2	7517.9	7325.7	7143.9	6928.4	6754.4	6614.2	6507.7	6468.7	6461.0
7.5°	7580.2	7452.9	7169.9	6840.1	6531.1	6263.6	5954.6	5801.4	5622.2	5559.8	5539.1
10°	7452.9	7281.6	6884.2	6424.6	5959.8	5515.7	5180.7	4908.0	4661.3	4614.6	4591.2
12.5°	7416.6	7190.7	6655.7	6063.6	5445.6	4900.2	4404.2	4045.9	3807.0	3752.4	3671.9
15°	7395.8	7115.4	6442.8	5700.1	4915.8	4251.0	3729.1	3311.0	3092.8	2947.4	2950.0
17.5°	7377.6	7029.7	6203.9	5302.8	4458.8	3692.7	3116.2	2739.7	2539.7	2461.8	2454.0
20°	7351.7	6928.4	5928.6	4884.7	3936.8	3183.7	2661.8	2381.3	2246.3	2181.3	2178.8
22.5°	7341.3	6829.7	5658.5	4458.8	3474.6	2791.6	2360.5	2163.2	2077.5	2033.3	2033.3
25°	7367.2	6759.6	5375.5	4053.7	3064.3	2456.6	2152.8	2017.7	1968.4	1945.0	1937.2
27.5°	7447.8	6728.4	5095.0	3648.6	2687.7	2228.1	2012.6	1919.1	1882.7	1864.5	1867.1
30°	7601.0	6725.8	4819.7	3248.7	2407.3	2054.1	1900.9	1836.0	1807.4	1797.0	1794.4
32.5°	7847.7	6783.0	4549.7	2918.9	2171.0	1908.7	1797.0	1750.3	1737.3	1729.5	1726.9
35°	8265.8	6944.0	4282.2	2617.6	1989.2	1778.8	1698.3	1675.0	1656.8	1664.6	1667.2
37.5°	8829.3	7221.8	4027.7	2381.3	1851.6	1682.8	1615.2	1594.5	1584.1	1591.9	1599.7
40°	9585.0	7621.7	3814.8	2191.7	1752.9	1602.3	1542.5	1524.3	1514.0	1526.9	1529.5
42.5°	10418.5	8084.0	3638.2	2043.7	1672.4	1534.7	1477.6	1456.8	1449.0	1456.8	1459.4
45°	11275.5	8621.5	3547.3	1937.2	1604.9	1485.4	1425.7	1402.3	1384.1	1378.9	1386.7
47.5°	12119.5	9089.0	3544.7	1872.3	1550.3	1441.2	1376.3	1350.4	1327.0	1314.0	1311.4
50°	12807.6	9460.3	3607.0	1843.8	1503.6	1391.9	1327.0	1301.0	1269.9	1243.9	1249.1
52.5°	13327.0	9701.8	3635.6	1830.8	1477.6	1340.0	1275.1	1251.7	1215.3	1181.6	1181.6
55°	13662.0	9758.9	3565.5	1817.8	1456.8	1285.4	1215.3	1194.5	1158.2	1124.4	1124.4
57.5°	13776.3	9582.4	3313.6	1786.6	1436.1	1238.7	1155.6	1137.4	1108.9	1075.1	1069.9
60°	13511.4	8985.1	2872.1	1693.1	1394.5	1189.4	1090.7	1082.9	1072.5	1043.9	1041.3
62.5°	12490.8	7717.8	2391.7	1571.1	1324.4	1137.4	1030.9	1043.9	1051.7	1036.1	1033.5
65°	10792.5	6266.2	2043.7	1402.3	1230.9	1064.7	966.0	999.8	1020.6	1020.6	1015.4
67.5°	8754.0	4812.0	1721.7	1256.9	1114.0	966.0	893.3	919.3	934.9	929.7	942.7
70°	6222.0	3259.0	1402.3	1090.7	966.0	854.4	799.8	799.8	789.4	784.2	784.2
72.5°	3017.5	1861.9	1137.4	911.5	823.2	729.7	685.6	667.4	646.6	644.0	631.0
73°	2521.5	1669.8	1085.5	877.7	789.4	711.5	662.2	633.6	620.6	610.3	607.7
75°	1534.7	1267.3	906.3	740.1	672.6	612.9	568.7	542.7	529.8	522.0	519.4
77.5°	1010.2	945.3	703.7	566.1	514.2	477.8	459.6	433.7	425.9	415.5	415.5
80°	753.1	721.9	503.8	399.9	368.8	337.6	332.4	327.2	306.4	293.4	288.2
82.5°	485.6	514.2	342.8	267.5	233.7	207.7	210.3	218.1	197.4	179.2	174.0
85°	345.4	371.3	207.7	122.1	98.7	85.7	96.1	85.7	88.3	70.1	57.1
87.5°	57.1	98.7	36.4	15.6	7.8	5.2	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)