

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: P456724

Luminaire Tested: **GALN-SA8A-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33334 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

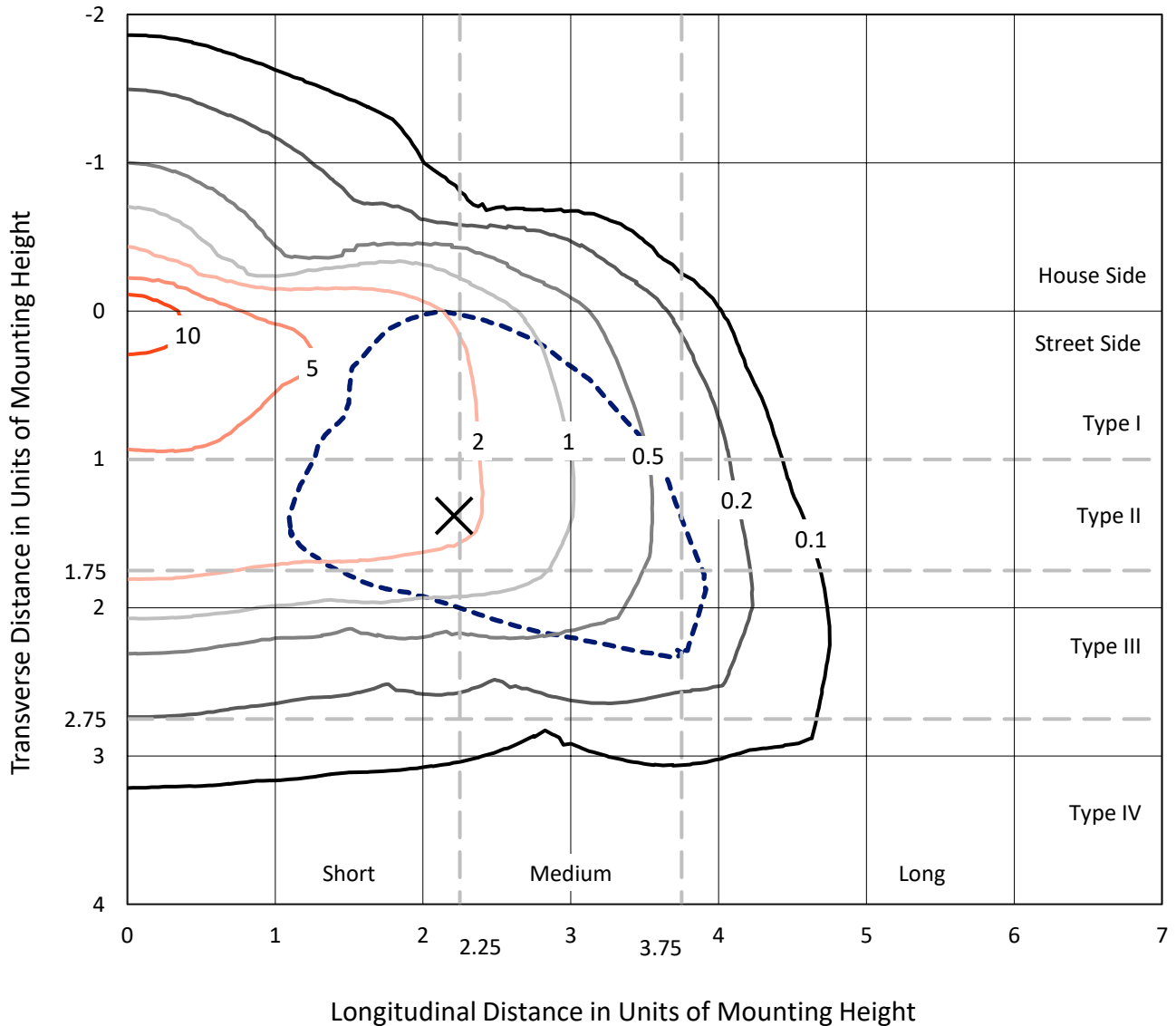
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

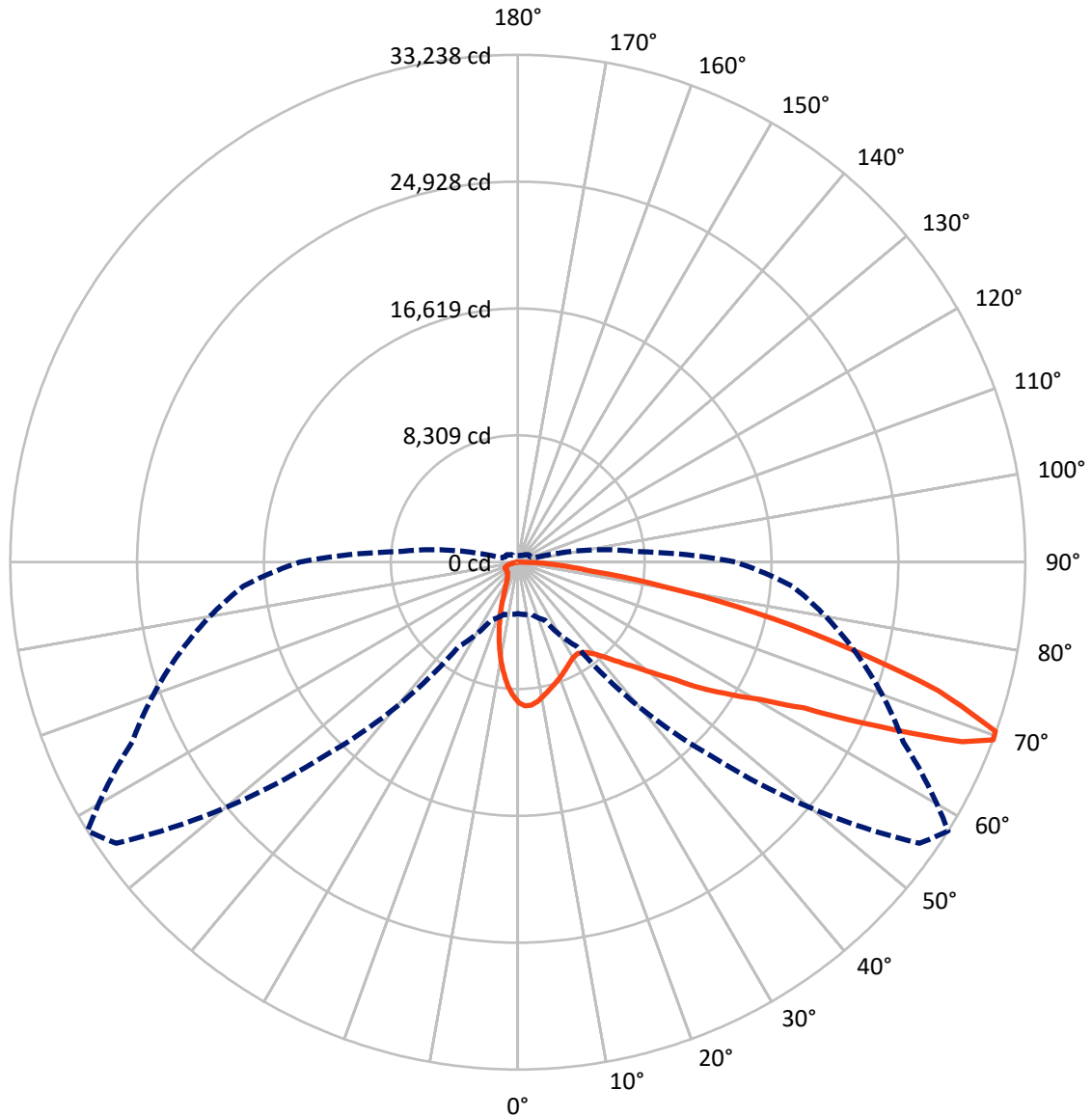
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4885.1	0.0	4885.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	28448.9	0.0	28448.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	33334.0	0.0	33334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	782.3	2.3
10°-20°	1717.8	5.2
20°-30°	2219.4	6.7
30°-40°	2882.5	8.6
40°-50°	4190.8	12.6
50°-60°	6687.1	20.1
60°-70°	8933.2	26.8
70°-80°	5149.6	15.4
80°-90°	771.3	2.3
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°	33334.0	100.0
0°-180°	33334.0	100.0

Coefficient of Utilization



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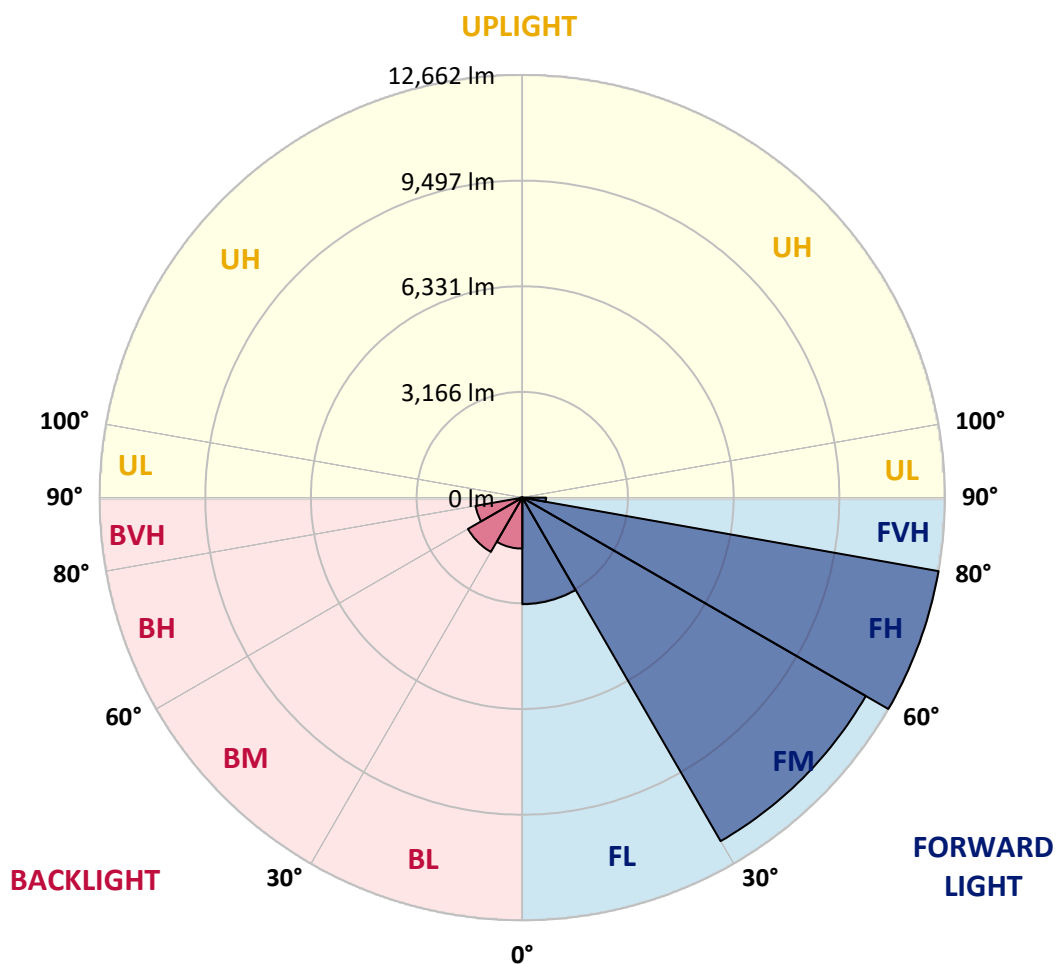
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3192.5	9.6			
FM	(30°-60°)	11881.8	35.6			
FH	(60°-80°)	12662.3	38.0			G5
FVH	(80°-90°)	712.2	2.1			G4/750
BL	(0°-30°)	1526.9	4.6	B3/2500		
BM	(30°-60°)	1878.6	5.6	B2/2500		
BH	(60°-60°)	1420.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	59.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9211.6	9211.6	9211.6	9211.6	9211.6	9211.6	9211.6	9211.6	9211.6	9211.6	9211.6
2.5°	9553.6	9579.7	9572.2	9562.9	9548.1	9507.2	9440.2	9429.1	9386.3	9295.2	9181.8
5°	9406.8	9429.1	9430.9	9443.9	9462.5	9455.1	9406.8	9401.2	9338.0	9215.3	9025.7
7.5°	8903.0	8932.7	8997.8	9070.3	9135.3	9196.7	9211.6	9220.9	9181.8	9040.5	8787.7
10°	8336.0	8365.7	8395.4	8503.3	8663.1	8815.6	8942.0	8958.7	8968.0	8837.9	8529.3
12.5°	7707.6	7768.9	7832.2	7992.0	8205.8	8445.6	8668.7	8704.0	8767.3	8668.7	8306.2
15°	7174.1	7237.3	7328.4	7471.5	7729.9	8075.7	8389.9	8447.5	8572.1	8521.9	8098.0
17.5°	6804.1	6826.4	6889.6	7053.2	7332.1	7696.4	8116.6	8231.8	8430.8	8417.8	7919.5
20°	6512.2	6540.1	6579.2	6679.5	6969.6	7354.4	7861.9	8010.6	8280.2	8324.8	7742.9
22.5°	6389.5	6410.0	6404.4	6458.3	6655.4	7042.1	7603.5	7780.1	8146.3	8261.6	7579.3
25°	6397.0	6415.6	6387.7	6374.7	6491.8	6766.9	7333.9	7558.9	8038.5	8218.8	7430.6
27.5°	6521.5	6534.5	6482.5	6430.4	6439.7	6595.9	7110.8	7360.0	7947.4	8237.4	7306.0
30°	6688.8	6713.0	6679.5	6616.3	6547.6	6555.0	6967.7	7213.1	7904.7	8302.5	7246.6
32.5°	6904.5	6926.8	6911.9	6861.7	6772.5	6674.0	6932.4	7159.2	7908.4	8434.5	7233.5
35°	7131.3	7175.9	7200.1	7196.4	7123.9	6952.8	7071.8	7259.6	7997.6	8655.7	7309.8
37.5°	7387.8	7425.0	7529.1	7596.1	7529.1	7330.2	7386.0	7516.1	8194.7	8975.5	7477.1
40°	7637.0	7692.7	7845.2	8053.4	8027.4	7852.6	7865.6	7951.1	8542.3	9451.4	7804.3
42.5°	7897.2	7964.1	8230.0	8538.6	8599.9	8464.2	8499.6	8575.8	9036.8	10111.3	8365.7
45°	8231.8	8311.8	8639.0	9023.8	9265.5	9181.8	9282.2	9319.4	9698.6	10970.2	9105.6
47.5°	8663.1	8756.1	9159.5	9639.1	9981.2	10057.4	10232.2	10209.9	10518.5	11987.1	10064.9
50°	9390.0	9442.1	9823.2	10312.1	10782.5	11126.4	11316.0	11351.3	11535.4	12976.1	11137.5
52.5°	10254.5	10301.0	10576.1	11003.7	11593.0	12321.7	12790.2	12675.0	12719.6	14180.8	12392.4
55°	11226.8	11304.9	11479.6	11764.0	12528.1	13600.8	14541.4	14569.3	14074.8	15333.4	13595.2
57.5°	11979.7	12111.7	12411.0	12816.3	13784.8	15022.9	16287.1	16305.7	15673.6	16564.1	14922.6
60°	11600.4	11756.6	12440.7	13427.9	15433.8	17504.8	18372.9	18267.0	17229.6	17965.8	16541.8
62.5°	9964.5	9992.4	10987.0	12530.0	15941.3	20825.0	21477.5	21029.5	19306.2	19743.1	18187.0
65°	6449.0	6631.2	7419.4	9581.5	14273.7	22667.3	26917.1	25881.6	22217.4	21760.1	19564.6
67.5°	4071.3	4024.8	4352.0	5471.2	9817.6	21044.4	31559.1	31395.5	26024.8	23033.6	19235.5
69°	3376.0	3428.1	3539.6	4194.0	6755.8	17967.7	32107.6	33237.9	27870.8	22933.2	18040.2
70°	3061.8	3086.0	3203.1	3718.1	5212.8	15049.0	31207.8	33187.7	28595.8	22513.0	17173.9
72.5°	2429.8	2427.9	2628.7	3093.5	3896.6	8590.6	25625.1	28813.3	27785.3	20557.3	14190.1
75°	1846.0	1875.8	2097.0	2617.5	3589.8	4694.1	17882.2	22189.6	22191.4	16236.9	8854.6
77.5°	1331.1	1349.7	1608.1	2197.4	3381.6	3805.5	11910.9	15915.3	14961.6	7439.9	2783.0
80°	871.9	883.0	1080.1	1740.1	3048.8	3589.8	7062.5	9741.4	7056.9	1974.3	920.2
82.5°	477.8	533.5	660.0	1126.6	2446.5	3316.5	4292.5	4930.2	2647.3	879.3	479.6
85°	239.8	254.7	371.8	658.1	1598.8	2743.9	2989.3	2827.6	1366.4	436.9	249.1
87.5°	70.6	89.2	154.3	254.7	648.8	1429.6	1663.8	1492.8	526.1	158.0	52.1
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°	9211.6	9211.6	9211.6	9211.6	9211.6	9211.6	9211.6	9211.6	9211.6	9211.6	9211.6
2.5°	9135.3	9101.9	8953.2	8819.3	8696.6	8566.5	8456.8	8360.1	8369.4	8371.3	8272.7
5°	8927.1	8850.9	8568.3	8304.4	8081.3	7798.7	7557.0	7400.9	7322.8	7218.7	7255.9
7.5°	8644.6	8497.7	8105.4	7666.7	7255.9	6889.6	6491.8	6218.5	6043.8	5874.6	5896.9
10°	8352.7	8116.6	7545.9	6965.8	6434.2	5848.6	5341.0	4906.0	4582.5	4461.7	4381.8
12.5°	8053.4	7742.9	7017.9	6246.4	5512.1	4811.2	4091.8	3625.1	3268.2	3078.6	3102.7
15°	7780.1	7402.7	6467.6	5526.9	4573.2	3738.5	3020.9	2576.6	2327.5	2275.5	2305.2
17.5°	7527.3	7032.8	5952.7	4827.9	3714.4	2803.4	2269.9	2018.9	1918.5	1890.6	1888.8
20°	7267.0	6718.6	5374.5	4080.6	2894.5	2173.2	1862.8	1745.6	1727.1	1738.2	1740.1
22.5°	7003.0	6330.0	4779.6	3338.8	2305.2	1777.2	1628.5	1596.9	1611.8	1637.8	1641.5
25°	6759.5	5988.0	4207.0	2688.2	1840.5	1561.6	1489.1	1489.1	1522.6	1561.6	1563.5
27.5°	6558.7	5657.1	3636.3	2134.2	1541.1	1405.4	1381.3	1394.3	1440.8	1470.5	1472.4
30°	6393.3	5348.5	3097.2	1710.3	1355.2	1280.9	1275.3	1297.6	1331.1	1359.0	1360.8
32.5°	6268.7	5077.1	2593.4	1437.0	1227.0	1186.1	1184.2	1200.9	1219.5	1227.0	1234.4
35°	6220.4	4852.1	2132.3	1264.2	1141.5	1115.4	1115.4	1113.6	1121.0	1124.7	1128.4
37.5°	6259.4	4679.2	1775.4	1152.6	1078.2	1059.7	1048.5	1037.3	1033.6	1033.6	1035.5
40°	6424.9	4588.1	1509.5	1080.1	1033.6	1005.7	985.3	972.3	959.3	963.0	966.7
42.5°	6776.2	4604.9	1329.2	1031.8	994.6	955.5	925.8	910.9	901.6	912.8	910.9
45°	7335.8	4772.2	1214.0	998.3	955.5	905.4	877.5	862.6	862.6	879.3	884.9
47.5°	8118.4	5091.9	1152.6	972.3	925.8	866.3	838.4	827.3	831.0	858.9	860.7
50°	9074.0	5647.8	1141.5	959.3	910.9	838.4	806.8	795.7	805.0	834.7	838.4
52.5°	10128.1	6363.5	1195.4	961.1	897.9	821.7	780.8	764.1	773.4	797.5	805.0
55°	11377.4	7259.6	1334.8	968.6	879.3	812.4	762.2	725.0	736.2	752.9	754.8
57.5°	12652.7	8389.9	1580.2	970.4	864.5	795.7	730.6	682.3	682.3	693.4	699.0
60°	14210.5	9620.6	1903.7	972.3	866.3	771.5	687.8	633.9	626.5	632.1	633.9
62.5°	15757.3	10650.5	1957.6	966.7	884.9	747.3	641.4	585.6	572.6	570.7	567.0
65°	16439.5	10459.0	1604.4	940.7	905.4	732.5	604.2	539.1	516.8	509.4	509.4
67.5°	15327.8	8847.2	1206.5	905.4	892.3	717.6	568.9	500.1	474.1	459.2	459.2
69°	14283.0	7869.3	1083.8	881.2	858.9	693.4	546.6	479.6	448.0	431.3	425.7
70°	13476.2	7196.4	1031.8	860.7	827.3	665.5	529.8	464.8	429.4	410.8	407.1
72.5°	10754.6	5645.9	903.5	782.7	704.6	559.6	470.3	418.3	384.8	364.4	358.8
75°	6198.1	3060.0	749.2	680.4	567.0	435.0	397.8	364.4	338.3	319.8	314.2
77.5°	1907.4	1182.4	542.8	537.3	416.4	336.5	317.9	304.9	286.3	265.8	262.1
80°	803.1	602.3	368.1	362.5	277.0	234.2	228.7	226.8	219.4	202.6	197.1
82.5°	440.6	340.2	256.5	223.1	167.3	135.7	141.3	143.1	137.6	120.8	109.7
85°	215.6	185.9	124.6	100.4	76.2	48.3	46.5	55.8	52.1	37.2	40.9
87.5°	42.8	52.1	33.5	14.9	7.4	0.0	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)