

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: P458002

Luminaire Tested: **GALN-SA9B-827-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458002
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-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 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: 37118 lumens
Efficiency: N/A
Efficacy: 102.0 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

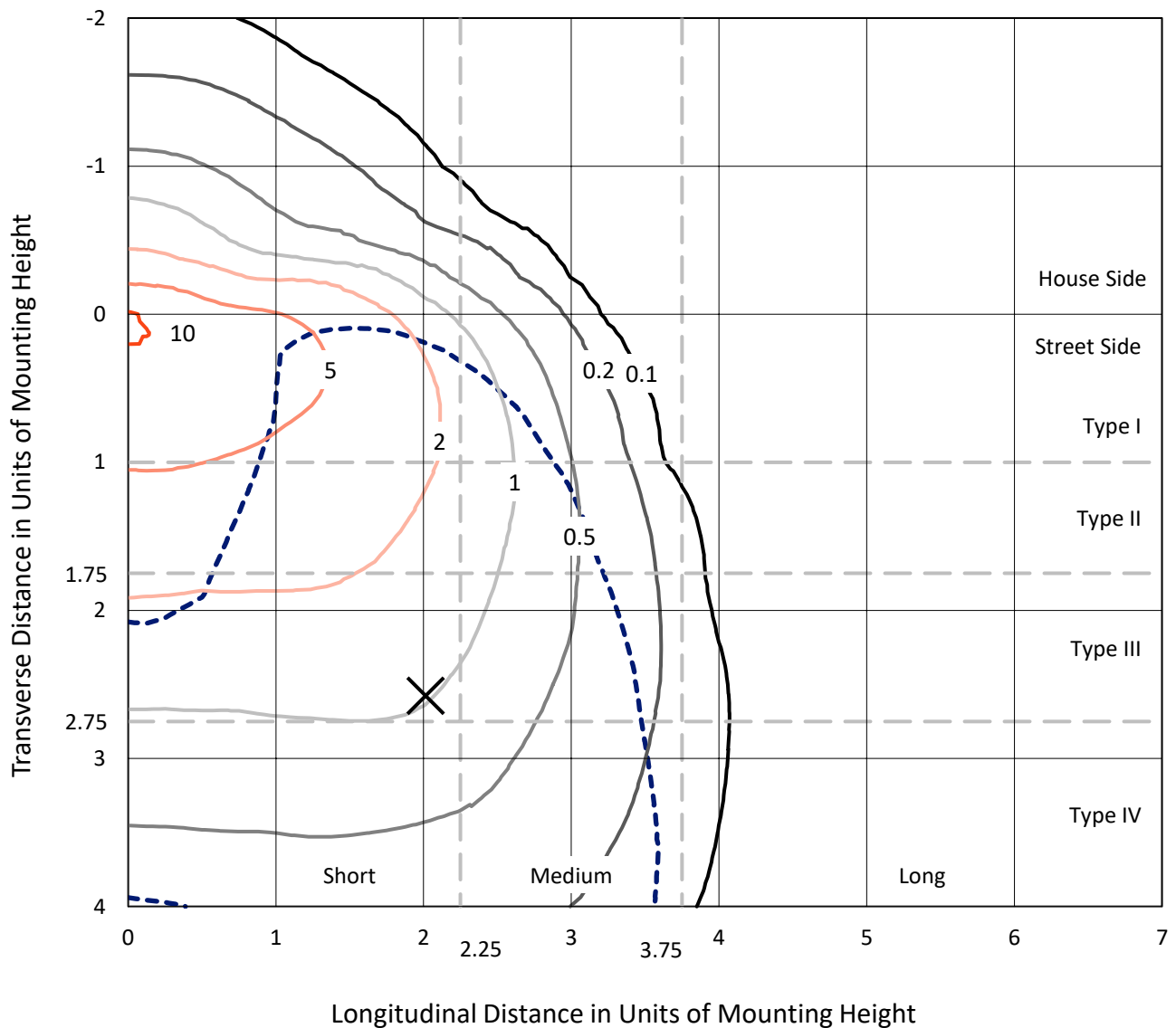
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

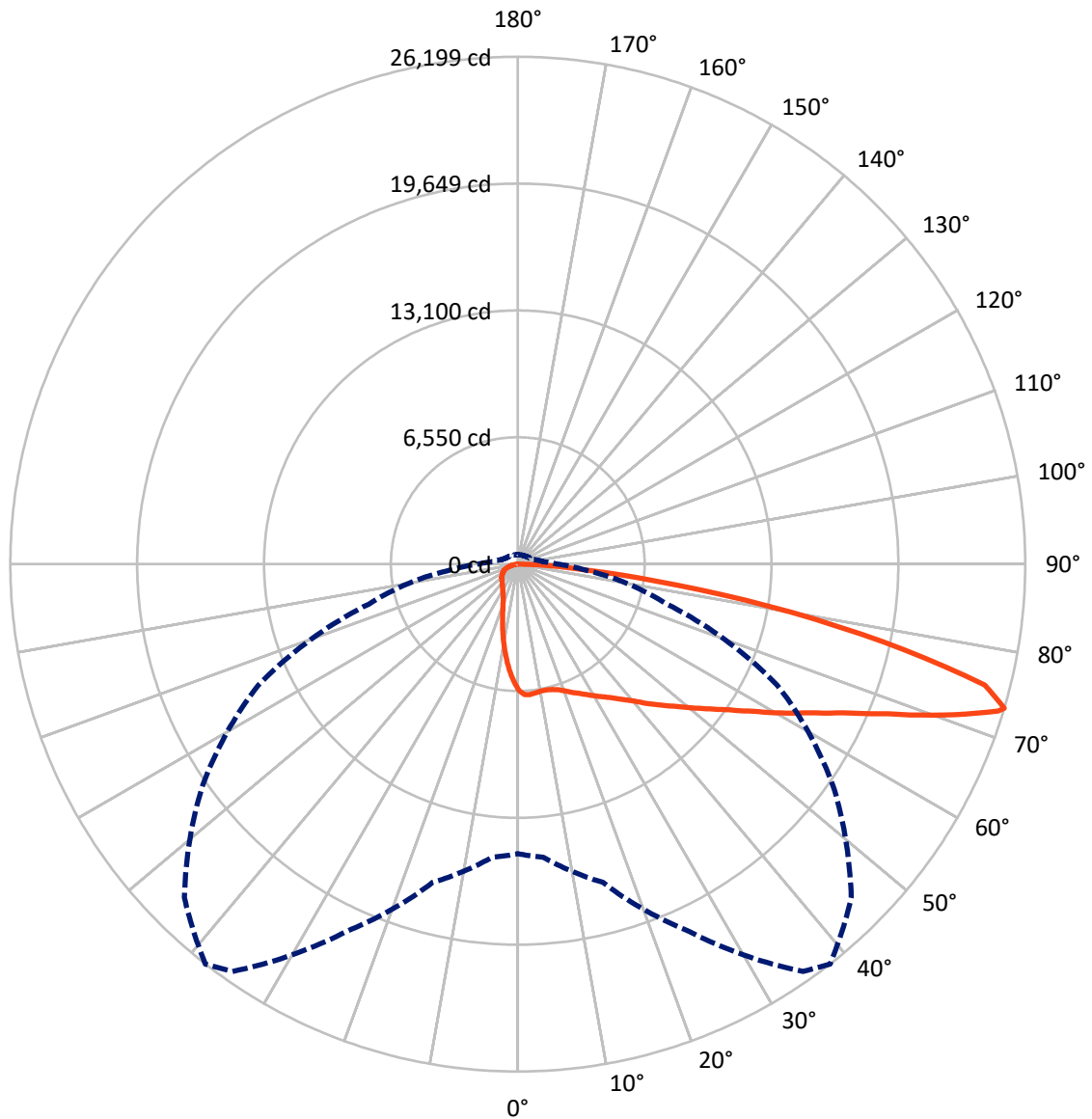
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	4989.8	0.0	4989.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	32128.2	0.0	32128.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	37118.0	0.0	37118.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.2	1.5
10°-20°	1459.6	3.9
20°-30°	2273.0	6.1
30°-40°	3333.9	9.0
40°-50°	4945.4	13.3
50°-60°	7006.7	18.9
60°-70°	8888.2	23.9
70°-80°	7398.8	19.9
80°-90°	1243.1	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°	37118.0	100.0
0°-180°	37118.0	100.0

Coefficient of Utilization



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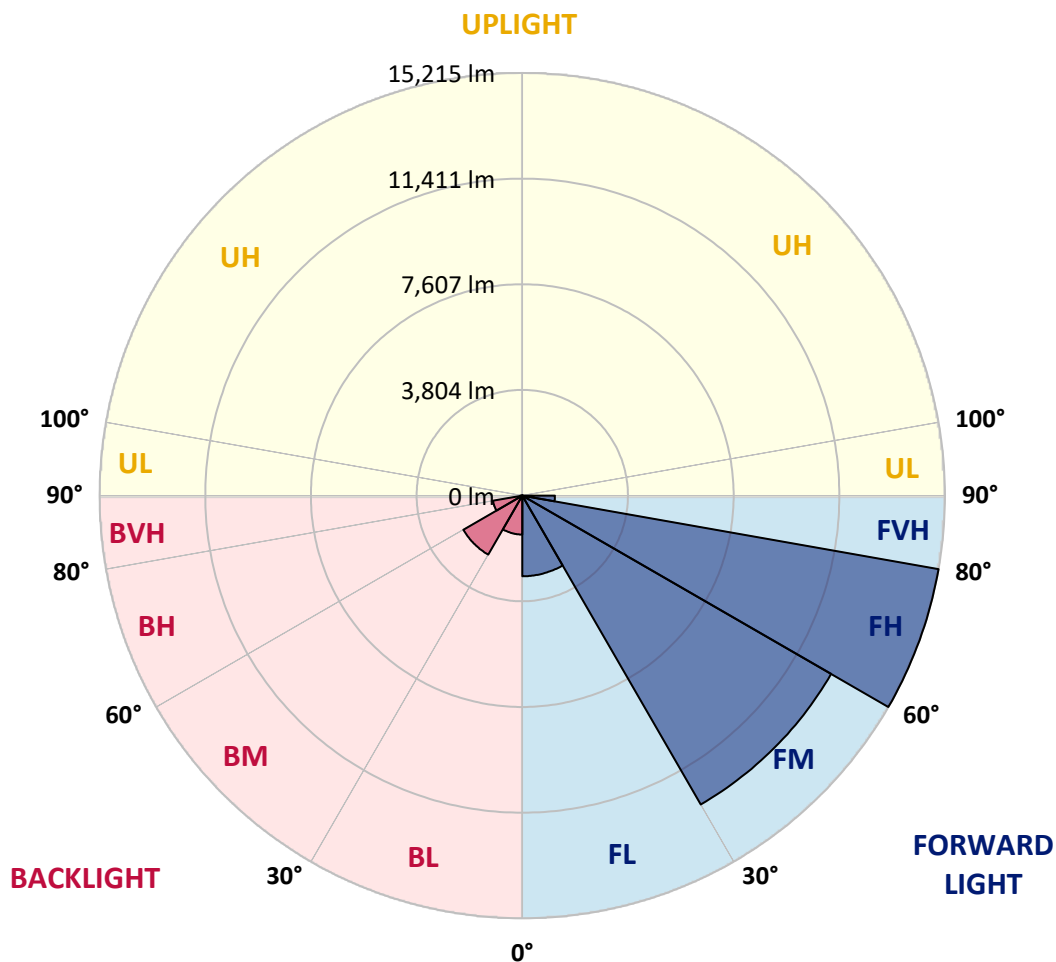
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2901.6	7.8			
FM	(30°-60°)	12836.4	34.6			
FH	(60°-80°)	15214.5	41.0			G5
FVH	(80°-90°)	1175.7	3.2			G5
BL	(0°-30°)	1400.2	3.8	B3/2500		
BM	(30°-60°)	2449.7	6.6	B2/2500		
BH	(60°-80°)	1072.5	2.9	B3/2500		G3/2500
BVH	(80°-90°)	67.4	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°	6521.0	6521.0	6521.0	6521.0	6521.0	6521.0	6521.0	6521.0	6521.0	6521.0	6521.0
2.5°	6783.0	6816.6	6799.8	6776.7	6762.1	6747.4	6726.4	6665.6	6617.4	6565.0	6483.3
5°	6833.3	6854.3	6839.6	6810.3	6776.7	6762.1	6722.2	6642.6	6565.0	6477.0	6355.4
7.5°	6804.0	6812.4	6795.6	6760.0	6730.6	6703.4	6657.3	6569.2	6474.9	6368.0	6208.7
10°	6699.2	6730.6	6730.6	6701.3	6671.9	6657.3	6611.1	6527.3	6441.4	6319.8	6131.1
12.5°	6613.2	6646.8	6674.0	6665.6	6663.5	6663.5	6627.9	6565.0	6464.4	6349.1	6124.8
15°	6554.5	6594.4	6653.1	6686.6	6707.6	6713.8	6699.2	6644.7	6542.0	6407.8	6150.0
17.5°	6542.0	6590.2	6697.1	6770.4	6824.9	6822.8	6818.7	6743.2	6630.0	6491.7	6181.4
20°	6598.6	6661.4	6810.3	6925.6	7005.2	6990.5	6967.5	6869.0	6736.9	6581.8	6210.8
22.5°	6768.3	6833.3	6996.8	7122.6	7200.1	7200.1	7131.0	7001.0	6860.6	6686.6	6250.6
25°	7011.5	7082.8	7256.7	7384.6	7420.2	7393.0	7323.8	7166.6	7005.2	6837.5	6334.4
27.5°	7309.1	7395.1	7556.5	7663.4	7652.9	7631.9	7560.7	7359.4	7198.0	7045.0	6477.0
30°	7680.2	7743.0	7910.7	7935.9	7898.1	7894.0	7793.3	7592.1	7441.2	7323.8	6680.3
32.5°	8030.2	8086.8	8221.0	8231.4	8164.4	8172.7	8078.4	7894.0	7808.0	7766.1	7022.0
35°	8401.2	8430.6	8545.8	8533.3	8489.3	8483.0	8445.2	8269.2	8296.4	8371.9	7506.2
37.5°	8711.4	8770.1	8835.1	8845.6	8843.5	8864.5	8889.6	8805.8	8963.0	9199.8	8141.3
40°	8996.5	9046.8	9143.2	9176.8	9258.5	9300.4	9386.4	9388.5	9751.1	10141.0	8923.1
42.5°	9189.4	9275.3	9455.6	9516.3	9715.5	9841.2	9969.1	10105.4	10631.5	11132.4	9845.4
45°	9357.0	9470.2	9770.0	9958.6	10229.0	10382.0	10652.4	10937.5	11694.2	12350.3	10782.4
47.5°	9610.7	9711.3	10055.0	10388.3	10797.1	10973.1	11377.7	11803.2	12792.6	13511.5	11679.5
50°	9962.8	10023.6	10373.7	10916.5	11438.5	11664.9	12199.4	12813.5	13966.4	14658.1	12467.7
52.5°	10413.5	10438.6	10717.4	11440.6	12128.1	12409.0	13117.5	13834.3	14993.5	15653.8	13092.3
55°	10945.9	10904.0	11122.0	11996.0	12916.2	13283.1	14043.9	14867.7	16148.4	16458.7	13547.2
57.5°	11472.0	11407.0	11581.0	12671.0	13888.8	14331.1	15217.8	15932.5	17179.7	17211.2	13865.8
60°	12029.6	11981.4	12188.9	13463.3	15081.5	15605.6	16425.1	17037.2	18177.5	17735.2	13916.1
62.5°	12601.8	12524.3	12819.8	14354.2	16425.1	16900.9	17695.4	18211.0	19156.4	17930.1	13431.9
65°	13157.3	13121.7	13578.6	15412.7	17955.3	18496.1	19267.5	19617.5	19940.3	17636.7	12230.8
67.5°	13748.4	13819.7	14549.1	16825.5	19950.8	20629.9	21462.1	21133.0	20164.6	16247.0	10300.3
70°	14649.7	14695.8	15823.5	18676.4	22522.7	23342.3	23744.8	21671.7	19083.0	13608.0	7743.0
72.5°	15037.5	15240.8	16961.7	20619.5	25444.7	25945.7	24511.9	20470.6	15896.9	9243.9	4068.6
73°	14951.6	15194.7	17014.1	20915.0	25673.2	26199.3	24348.4	19852.3	14777.6	7961.0	3487.9
75°	13880.5	14180.2	16332.9	20667.7	25228.8	24914.4	21719.9	16919.8	9985.9	3620.0	1588.9
77.5°	10952.2	11038.1	12941.4	16689.2	19866.9	19284.2	16255.3	10574.9	4079.0	1345.7	901.3
80°	5493.9	5810.4	7294.5	9560.4	13285.2	13094.4	10260.5	5001.3	1699.9	790.2	597.4
82.5°	2643.2	2867.5	3552.9	4661.8	7340.6	7166.6	5081.0	2733.3	1079.5	461.1	352.1
85°	1702.0	1869.7	2261.7	2224.0	3018.4	2882.2	2282.7	2068.9	639.3	241.1	245.2
87.5°	1123.5	1230.4	1475.7	1180.1	1098.4	993.6	1008.2	1165.4	125.8	92.2	33.5
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°	6521.0	6521.0	6521.0	6521.0	6521.0	6521.0	6521.0	6521.0	6521.0	6521.0	6521.0
2.5°	6449.7	6422.5	6332.4	6244.3	6160.5	6080.8	6028.4	5959.2	5913.1	5925.7	5944.6
5°	6288.3	6227.5	6068.2	5913.1	5766.4	5592.4	5452.0	5338.8	5252.9	5221.4	5215.1
7.5°	6118.6	6015.8	5787.4	5521.2	5271.7	5055.8	4806.4	4682.7	4538.1	4487.8	4471.0
10°	6015.8	5877.5	5556.8	5185.8	4810.6	4452.1	4181.7	3961.7	3762.5	3724.8	3705.9
12.5°	5986.5	5804.1	5372.3	4894.4	4395.5	3955.4	3555.0	3265.7	3072.9	3028.9	2963.9
15°	5969.7	5743.3	5200.5	4601.0	3967.9	3431.3	3010.0	2672.5	2496.5	2379.1	2381.2
17.5°	5955.1	5674.2	5007.6	4280.3	3599.0	2980.7	2515.3	2211.4	2050.0	1987.1	1980.8
20°	5934.1	5592.4	4785.4	3942.8	3177.7	2569.8	2148.5	1922.1	1813.1	1760.7	1758.6
22.5°	5925.7	5512.8	4567.4	3599.0	2804.6	2253.3	1905.4	1746.1	1676.9	1641.3	1641.3
25°	5946.7	5456.2	4339.0	3272.0	2473.4	1982.9	1737.7	1628.7	1588.9	1570.0	1563.7
27.5°	6011.6	5431.0	4112.6	2945.0	2169.5	1798.5	1624.5	1549.0	1519.7	1505.0	1507.1
30°	6135.3	5428.9	3890.4	2622.2	1943.1	1658.0	1534.4	1482.0	1458.9	1450.5	1448.4
32.5°	6334.4	5475.0	3672.4	2356.0	1752.3	1540.6	1450.5	1412.8	1402.3	1396.0	1393.9
35°	6671.9	5605.0	3456.5	2112.9	1605.6	1435.8	1370.9	1352.0	1337.3	1343.6	1345.7
37.5°	7126.8	5829.3	3251.1	1922.1	1494.5	1358.3	1303.8	1287.0	1278.6	1284.9	1291.2
40°	7736.7	6152.1	3079.2	1769.1	1414.9	1293.3	1245.1	1230.4	1222.0	1232.5	1234.6
42.5°	8409.6	6525.2	2936.7	1649.6	1349.9	1238.8	1192.7	1175.9	1169.6	1175.9	1178.0
45°	9101.3	6959.1	2863.3	1563.7	1295.4	1199.0	1150.8	1131.9	1117.2	1113.0	1119.3
47.5°	9782.6	7336.4	2861.2	1511.3	1251.4	1163.3	1110.9	1090.0	1071.1	1060.6	1058.5
50°	10338.0	7636.1	2911.5	1488.2	1213.6	1123.5	1071.1	1050.2	1025.0	1004.0	1008.2
52.5°	10757.2	7831.1	2934.6	1477.8	1192.7	1081.6	1029.2	1010.3	981.0	953.7	953.7
55°	11027.6	7877.2	2878.0	1467.3	1175.9	1037.6	981.0	964.2	934.9	907.6	907.6
57.5°	11119.9	7734.7	2674.6	1442.1	1159.1	999.8	932.8	918.1	895.0	867.8	863.6
60°	10906.1	7252.5	2318.3	1366.7	1125.6	960.0	880.4	874.1	865.7	842.6	840.5
62.5°	10082.3	6229.6	1930.5	1268.1	1069.0	918.1	832.2	842.6	848.9	836.3	834.3
65°	8711.4	5057.9	1649.6	1131.9	993.6	859.4	779.8	807.0	823.8	823.8	819.6
67.5°	7066.0	3884.1	1389.7	1014.5	899.2	779.8	721.1	742.0	754.6	750.4	760.9
70°	5022.3	2630.6	1131.9	880.4	779.8	689.6	645.6	645.6	637.2	633.0	633.0
72.5°	2435.7	1502.9	918.1	735.7	664.5	589.0	553.4	538.7	521.9	519.8	509.4
73°	2035.3	1347.8	876.2	708.5	637.2	574.3	534.5	511.5	501.0	492.6	490.5
75°	1238.8	1022.9	731.5	597.4	542.9	494.7	459.0	438.1	427.6	421.3	419.2
77.5°	815.4	763.0	568.0	457.0	415.0	385.7	371.0	350.1	343.8	335.4	335.4
80°	607.9	582.7	406.6	322.8	297.6	272.5	268.3	264.1	247.3	236.9	232.7
82.5°	392.0	415.0	276.7	215.9	188.7	167.7	169.8	176.1	159.3	144.6	140.4
85°	278.8	299.7	167.7	98.5	79.7	69.2	77.6	69.2	71.3	56.6	46.1
87.5°	46.1	79.7	29.3	12.6	6.3	4.2	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)