

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: P530441

Luminaire Tested: **GALN-SA5C-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16330 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 269
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

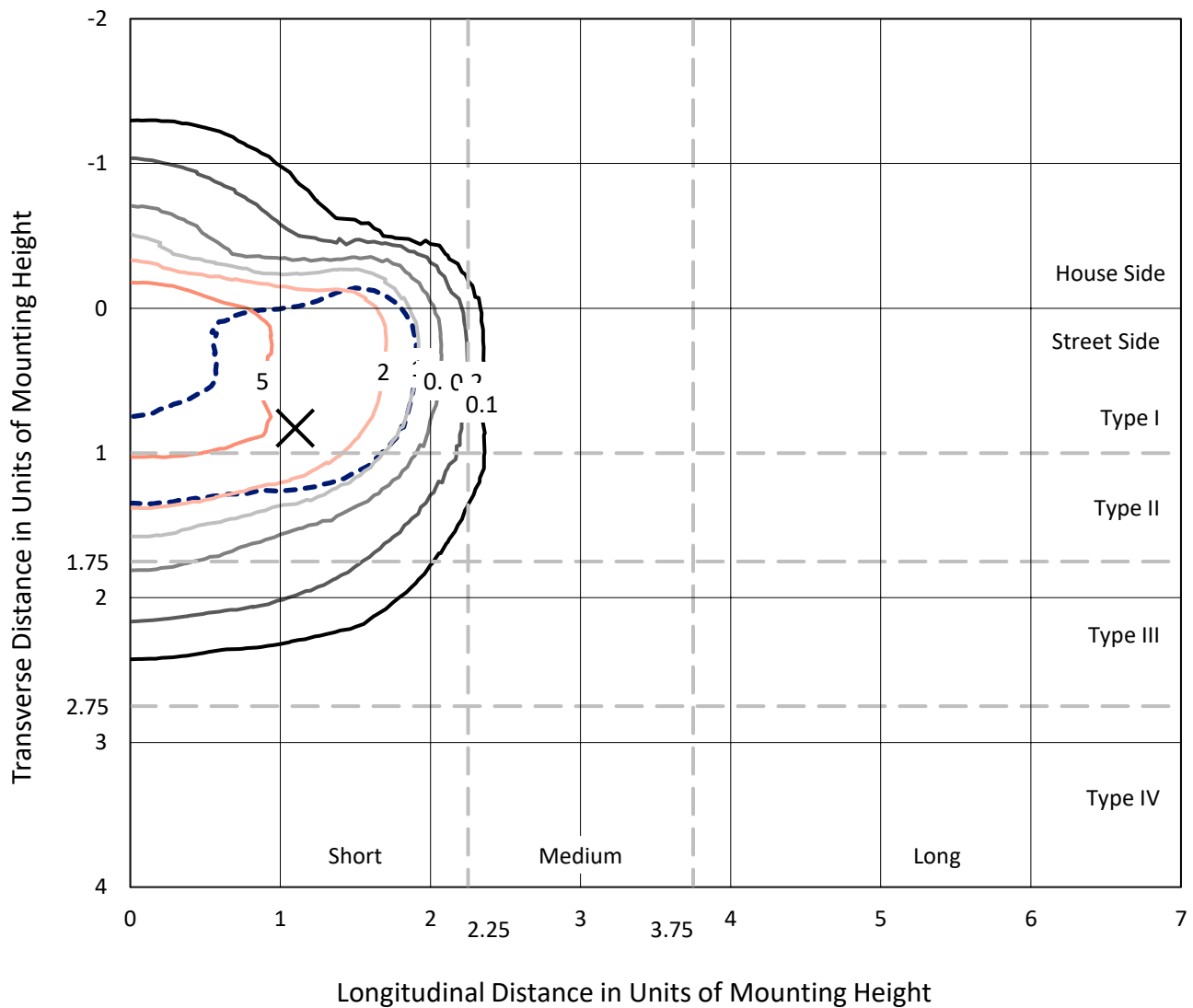


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Iso-Footcandle Lines of Horizontal Illumination

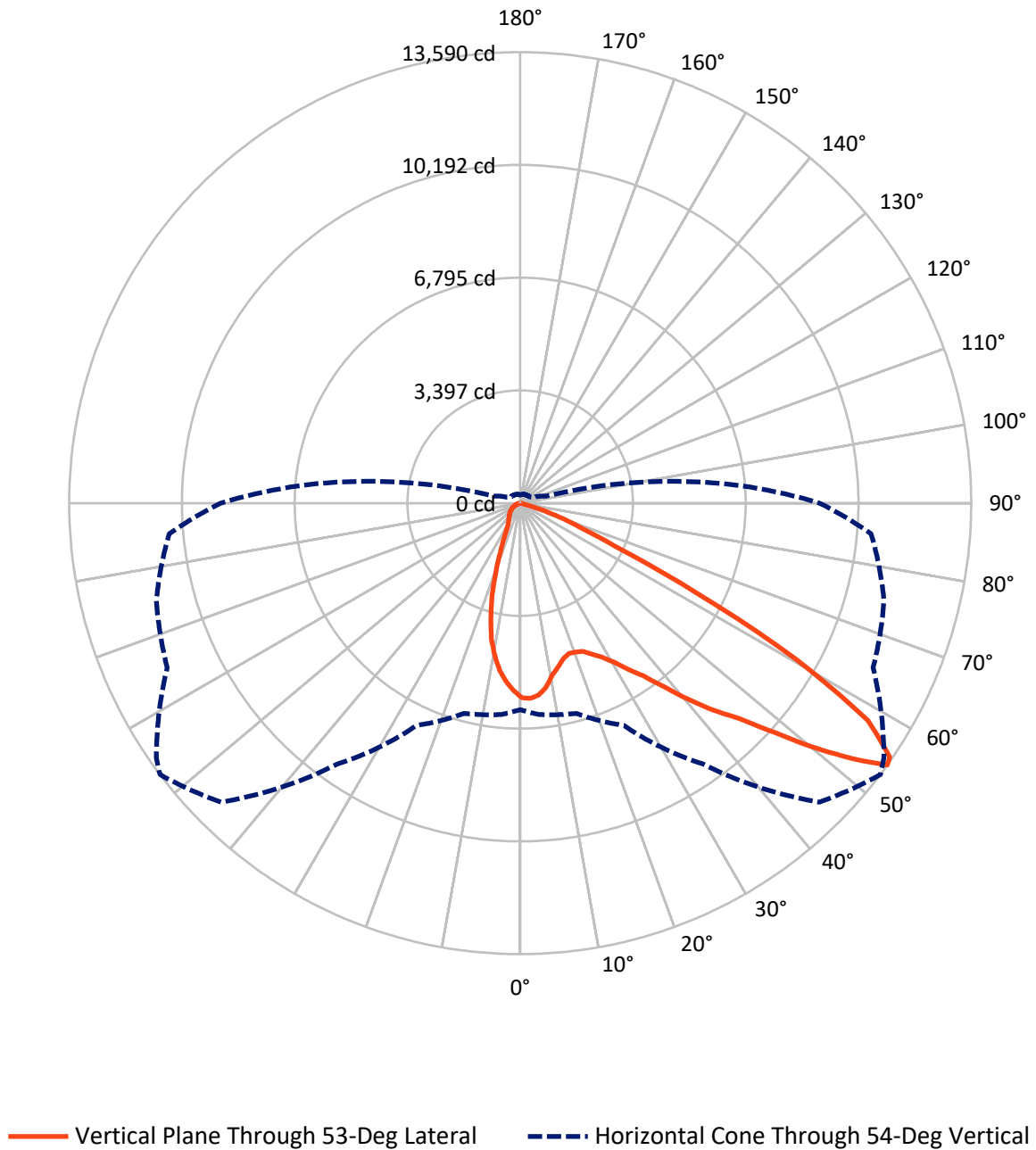
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2701.8	0.0	2701.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	13628.2	0.0	13628.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	16330.0	0.0	16330.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.2	3.1
10°-20°	1153.8	7.1
20°-30°	1639.8	10.0
30°-40°	2530.6	15.5
40°-50°	3967.7	24.3
50°-60°	4609.1	28.2
60°-70°	1741.6	10.7
70°-80°	165.6	1.0
80°-90°	18.6	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°	16330.0	100.0
0°-180°	16330.0	100.0

Coefficient of Utilization



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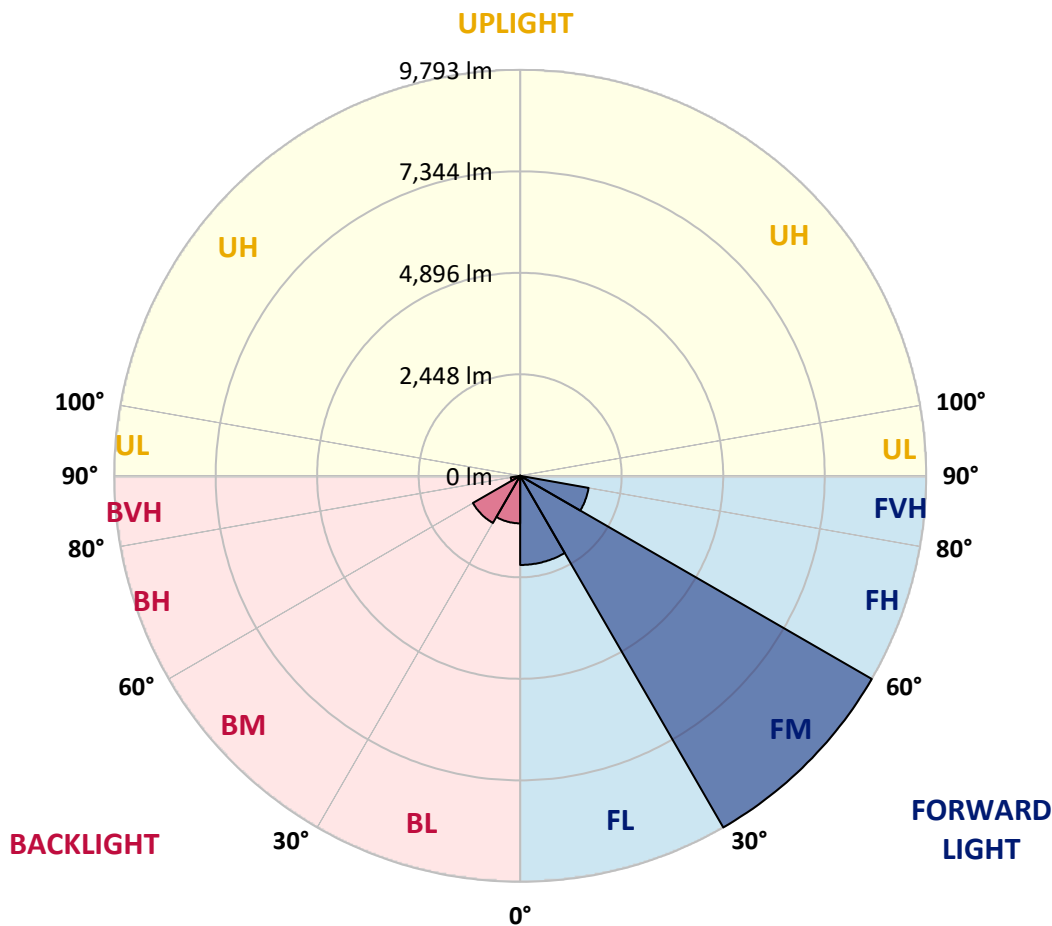
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2150.2	13.2			
FM	(30°-60°)	9792.6	60.0			
FH	(60°-80°)	1675.7	10.3			G1/1800
FVH	(80°-90°)	9.6	0.1			G0/10
BL	(0°-30°)	1146.5	7.0	B3/2500		
BM	(30°-60°)	1314.8	8.1	B2/2500		
BH	(60°-80°)	231.5	1.4	B1/500		G1/500
BVH	(80°-90°)	9.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5865.5	5865.5	5865.5	5865.5	5865.5	5865.5	5865.5	5865.5	5865.5	5865.5	5865.5
2.5°	5835.0	5783.3	5835.0	5841.1	5877.6	5911.1	5889.8	5938.5	5911.1	5880.7	5871.5
5°	5363.5	5433.5	5436.5	5546.0	5521.7	5722.5	5810.7	5786.4	5935.4	5926.3	5905.0
7.5°	4940.6	4913.2	4949.7	5077.5	5238.8	5470.0	5597.7	5594.7	5807.7	5959.8	5944.6
10°	4548.2	4545.1	4621.2	4721.6	4858.5	5101.9	5278.3	5366.5	5698.1	5929.3	5962.8
12.5°	4283.5	4271.3	4353.5	4435.6	4651.6	4840.2	5065.3	5107.9	5488.2	5822.9	5877.6
15°	4110.1	4137.5	4143.5	4301.7	4438.6	4688.1	4864.6	4952.8	5390.9	5737.7	5947.6
17.5°	4079.7	4116.2	4119.2	4250.0	4396.1	4606.0	4761.1	4879.8	5308.7	5780.3	5950.6
20°	4140.5	4119.2	4137.5	4219.6	4362.6	4563.4	4788.5	4828.1	5281.3	5801.6	5984.1
22.5°	4313.9	4307.8	4262.2	4329.1	4429.5	4639.4	4852.4	4913.2	5360.4	5911.1	6011.5
25°	4505.6	4539.0	4496.4	4487.3	4557.3	4764.2	5047.1	5126.2	5625.1	6108.8	6096.7
27.5°	4864.6	4831.1	4831.1	4788.5	4770.3	4870.6	5257.0	5387.8	5920.2	6364.4	6194.0
30°	5208.3	5244.8	5217.5	5232.7	5111.0	5101.9	5555.2	5716.4	6443.5	6753.8	6400.9
32.5°	5752.9	5704.2	5749.9	5710.3	5549.1	5384.8	5959.8	6127.1	7076.3	7201.0	6711.2
35°	6206.2	6184.9	6379.6	6373.5	6111.9	5950.6	6388.7	6638.2	7517.4	7736.4	7076.3
37.5°	6851.2	6811.6	7033.7	7140.2	6905.9	6665.6	7003.3	7292.3	7928.1	8165.4	7450.5
40°	7514.4	7614.8	7912.9	8089.3	7839.9	7520.4	7754.7	7842.9	8201.9	8445.3	7706.0
42.5°	8354.0	8500.1	8804.3	8956.4	8935.1	8588.3	8518.3	8515.3	8399.7	8366.2	7894.6
45°	9160.2	9105.5	9574.0	9905.6	10173.3	10072.9	9254.5	9163.3	8713.0	8484.8	7943.3
47.5°	9513.1	9494.9	9814.3	10404.5	11317.2	11441.9	10325.4	9972.5	9242.4	8983.8	8208.0
50°	9056.8	9151.1	9467.5	10121.6	11521.0	12473.2	11639.7	11165.1	9859.9	9592.2	8834.7
52.5°	7566.1	7630.0	7931.1	8761.7	10827.4	13081.7	12899.1	12625.3	10994.7	10550.5	9926.9
54°	6221.4	6391.8	6556.1	7389.6	9592.2	12744.0	13589.7	13379.8	11734.0	11347.6	10614.4
55°	5418.2	5518.6	5637.3	6467.8	8737.3	12172.0	13510.6	13528.9	12229.9	11597.1	11076.8
57.5°	3958.0	4027.9	3906.3	4274.4	5999.3	9884.3	12357.6	12850.5	12899.1	11971.3	11359.8
60°	3024.0	3054.4	2917.5	2975.3	3729.8	6784.2	9558.8	10152.0	11636.6	10462.3	9622.6
62.5°	2345.6	2351.7	2348.6	2449.0	2570.7	3991.4	5978.0	6504.3	8022.4	7429.2	6534.8
65°	1728.0	1700.6	1749.3	2053.5	2193.5	2509.9	3148.7	3532.1	4359.5	3681.1	2631.5
67.5°	1119.5	1128.7	1177.4	1527.2	1880.1	1925.7	1937.9	1907.5	1910.5	1052.6	660.2
70°	672.3	687.5	672.3	864.0	1344.7	1381.2	1262.5	1232.1	961.4	249.5	246.4
72.5°	398.5	377.2	337.7	371.2	559.8	669.3	602.4	599.3	377.2	146.0	146.0
75°	167.3	152.1	124.7	112.6	149.1	143.0	143.0	127.8	100.4	97.4	91.3
77.5°	33.5	33.5	24.3	27.4	36.5	42.6	51.7	51.7	60.8	60.8	57.8
80°	0.0	3.0	9.1	18.3	27.4	39.5	45.6	45.6	51.7	51.7	42.6
82.5°	0.0	3.0	9.1	18.3	24.3	36.5	45.6	45.6	51.7	54.8	45.6
85°	0.0	3.0	9.1	15.2	24.3	30.4	30.4	27.4	21.3	18.3	12.2
87.5°	0.0	0.0	3.0	6.1	3.0	6.1	6.1	6.1	6.1	6.1	6.1
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°	5865.5	5865.5	5865.5	5865.5	5865.5	5865.5	5865.5	5865.5	5865.5	5865.5	5865.5
2.5°	5892.8	5889.8	5816.8	5698.1	5670.8	5570.4	5558.2	5497.3	5530.8	5418.2	5406.1
5°	5844.2	5807.7	5719.4	5643.4	5421.3	5263.1	5138.4	4986.3	4898.0	4913.2	4855.4
7.5°	5914.1	5819.8	5664.7	5400.0	5129.2	4852.4	4703.3	4393.0	4280.4	4113.1	4088.8
10°	5841.1	5771.2	5530.8	5092.7	4718.5	4320.0	3970.1	3626.4	3364.7	3252.2	3227.8
12.5°	5835.0	5713.3	5311.8	4825.0	4283.5	3711.5	3203.5	2774.5	2515.9	2369.9	2336.4
15°	5740.7	5594.7	5065.3	4411.3	3662.9	2951.0	2397.3	1983.5	1785.8	1700.6	1725.0
17.5°	5749.9	5530.8	4818.9	3973.2	3051.4	2166.1	1636.7	1423.8	1372.1	1393.4	1393.4
20°	5740.7	5387.8	4520.8	3468.2	2336.4	1502.9	1201.7	1125.6	1159.1	1226.0	1210.8
22.5°	5692.1	5320.9	4247.0	2935.8	1718.9	1113.5	964.4	967.4	1019.2	1101.3	1119.5
25°	5728.6	5171.8	3900.2	2397.3	1253.4	888.3	836.6	857.9	912.7	973.5	985.7
27.5°	5701.2	5065.3	3538.1	1861.9	915.7	763.6	760.6	784.9	809.2	854.9	854.9
30°	5731.6	4968.0	3182.2	1384.2	754.5	699.7	687.5	705.8	730.1	739.3	736.2
32.5°	5844.2	4895.0	2771.5	1034.4	666.3	638.9	638.9	638.9	635.8	648.0	651.0
35°	6090.6	4907.2	2409.5	800.1	608.5	587.2	578.0	565.9	559.8	565.9	568.9
37.5°	6358.3	4901.1	2035.3	681.5	565.9	547.6	526.3	508.1	505.0	511.1	502.0
40°	6477.0	4958.9	1688.4	611.5	526.3	505.0	471.5	456.3	459.4	465.5	459.4
42.5°	6638.2	4977.1	1463.3	556.7	489.8	456.3	435.0	416.8	413.7	422.9	419.8
45°	6635.2	4873.7	1226.0	526.3	456.3	419.8	392.5	377.2	377.2	383.3	386.4
47.5°	6829.9	4858.5	1052.6	498.9	432.0	395.5	362.0	349.9	346.8	346.8	340.7
50°	7283.1	5071.4	918.8	468.5	401.6	368.1	340.7	325.5	313.4	307.3	304.2
52.5°	8168.4	5734.6	815.3	432.0	368.1	340.7	316.4	304.2	289.0	273.8	270.8
54°	9026.4	6419.2	809.2	401.6	340.7	322.5	301.2	295.1	276.8	255.5	249.5
55°	9412.7	6817.7	830.5	377.2	322.5	310.3	292.1	286.0	267.7	243.4	240.3
57.5°	9732.2	6972.8	818.4	313.4	292.1	289.0	273.8	264.7	243.4	209.9	203.8
60°	7833.8	5272.2	587.2	276.8	267.7	261.6	249.5	243.4	216.0	179.5	176.5
62.5°	4949.7	3033.1	374.2	243.4	234.3	225.1	209.9	203.8	179.5	143.0	133.9
65°	2108.3	1256.4	252.5	216.0	200.8	185.6	173.4	164.3	143.0	106.5	103.4
67.5°	547.6	447.2	209.9	188.6	167.3	146.0	136.9	121.7	97.4	73.0	70.0
70°	246.4	225.1	176.5	158.2	133.9	112.6	100.4	85.2	63.9	48.7	45.6
72.5°	146.0	143.0	133.9	118.6	100.4	85.2	73.0	57.8	42.6	27.4	27.4
75°	91.3	88.2	91.3	82.1	70.0	63.9	54.8	39.5	24.3	12.2	12.2
77.5°	54.8	54.8	54.8	51.7	48.7	48.7	39.5	24.3	12.2	3.0	3.0
80°	42.6	42.6	45.6	42.6	42.6	42.6	33.5	18.3	6.1	0.0	0.0
82.5°	42.6	45.6	51.7	48.7	42.6	36.5	30.4	18.3	6.1	0.0	0.0
85°	12.2	9.1	15.2	21.3	30.4	27.4	21.3	15.2	6.1	0.0	0.0
87.5°	6.1	6.1	6.1	6.1	3.0	3.0	3.0	3.0	3.0	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)