

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: P529741

Luminaire Tested: **GALN-SA4D-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4D-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14221 lumens
Efficiency: N/A
Efficacy: 58.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 245
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

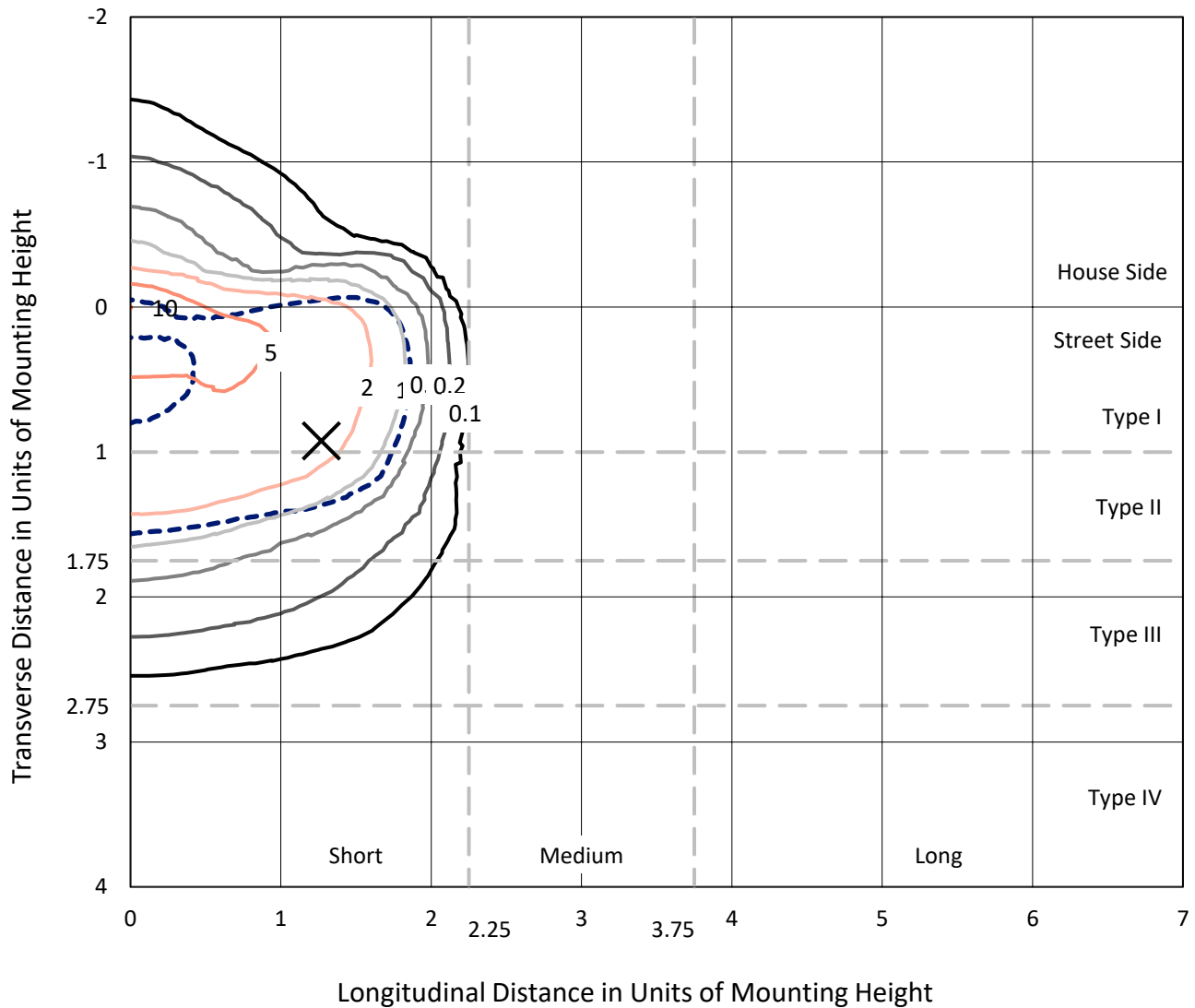


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

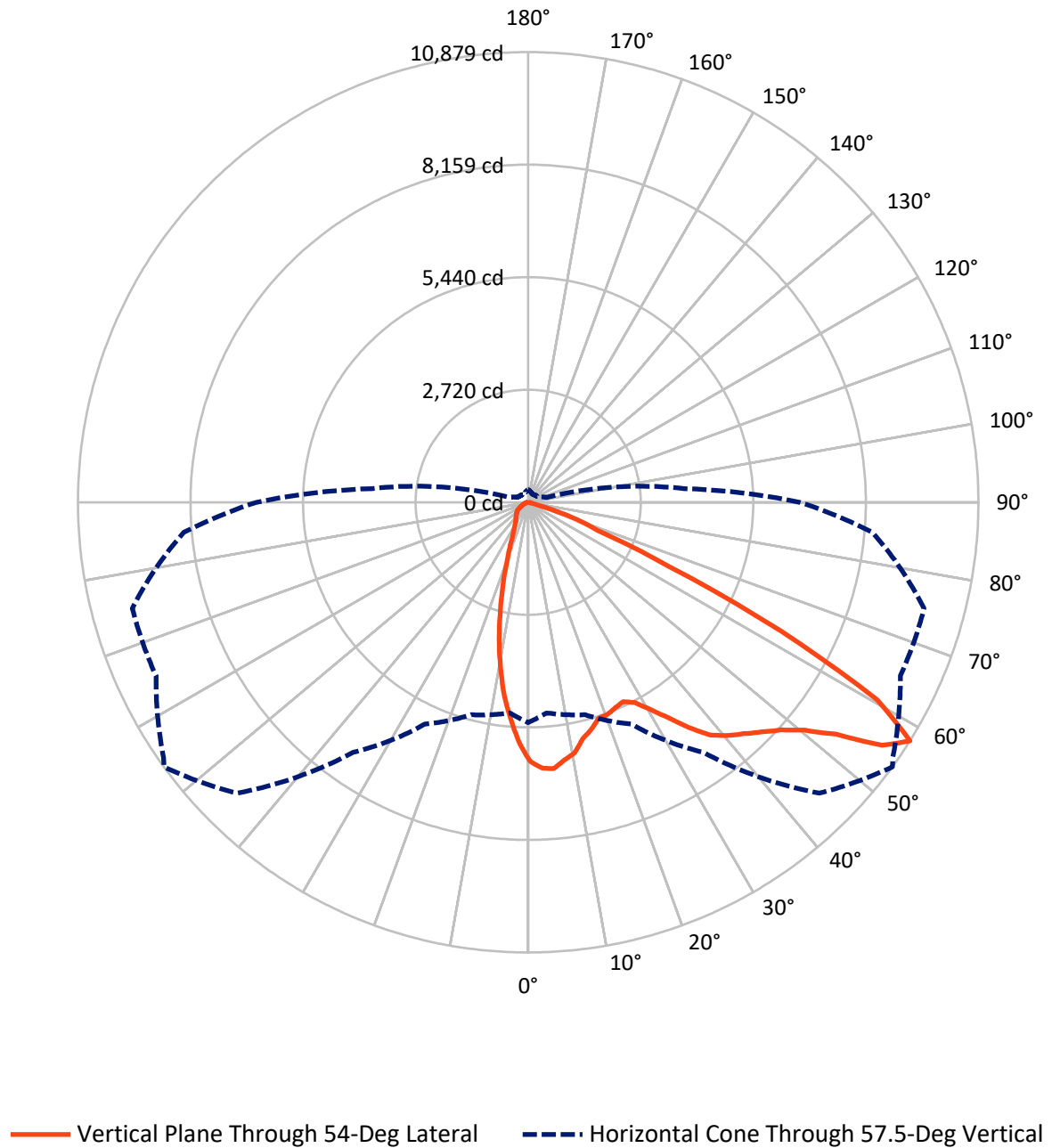


Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2009.7	0.0	2009.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	12211.3	0.0	12211.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	14221.0	0.0	14221.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.2	3.7
10°-20°	1119.2	7.9
20°-30°	1483.2	10.4
30°-40°	2155.5	15.2
40°-50°	3196.3	22.5
50°-60°	3996.8	28.1
60°-70°	1576.6	11.1
70°-80°	157.0	1.1
80°-90°	12.2	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°	14221.0	100.0
0°-180°	14221.0	100.0

Coefficient of Utilization



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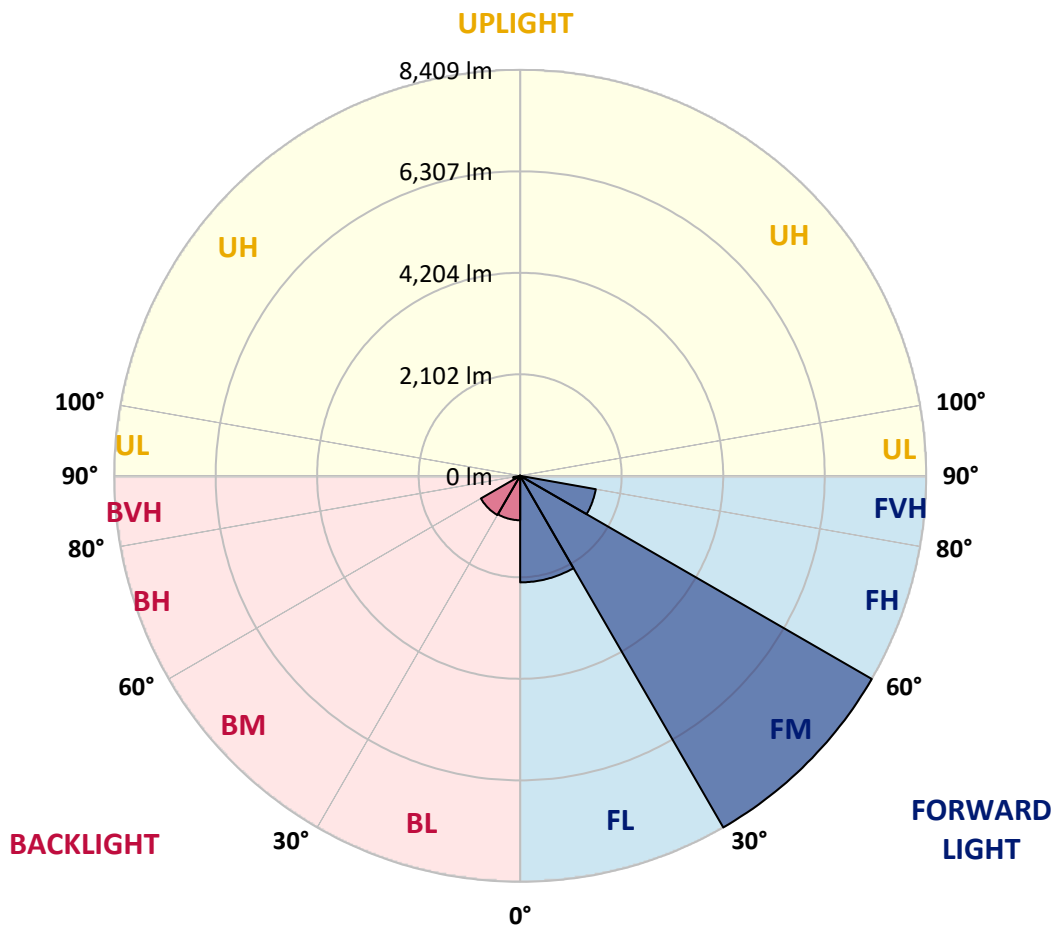
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2207.5	15.5			
FM	(30°-60°)	8408.8	59.1			
FH	(60°-80°)	1589.4	11.2			G1/1800
FVH	(80°-90°)	5.5	0.0			G0/10
BL	(0°-30°)	919.1	6.5	B2/1000		
BM	(30°-60°)	939.8	6.6	B1/1000		
BH	(60°-80°)	144.1	1.0	B1/500		G1/500
BVH	(80°-90°)	6.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6264.5	6264.5	6264.5	6264.5	6264.5	6264.5	6264.5	6264.5	6264.5	6264.5	6264.5
2.5°	6629.5	6560.7	6566.0	6542.2	6510.5	6534.3	6431.1	6454.9	6452.3	6312.1	6219.6
5°	6462.9	6536.9	6460.2	6523.7	6462.9	6529.0	6465.5	6417.9	6341.2	6238.1	6066.2
7.5°	6179.9	6108.5	6129.7	6209.0	6222.2	6370.3	6291.0	6351.8	6320.1	6116.5	5881.1
10°	5611.4	5595.5	5701.3	5807.1	5936.6	6095.3	6156.1	6121.7	6097.9	6021.3	5706.6
12.5°	5175.1	5220.0	5217.4	5391.9	5611.4	5701.3	5860.0	5854.7	5986.9	5844.1	5542.6
15°	4759.9	4783.7	4894.8	5003.2	5246.5	5503.0	5698.6	5725.1	5883.8	5783.3	5415.7
17.5°	4506.0	4471.7	4558.9	4688.5	4937.1	5272.9	5489.7	5553.2	5770.0	5748.9	5270.3
20°	4254.8	4254.8	4326.2	4479.6	4707.0	5085.1	5471.2	5452.7	5770.0	5709.2	5114.2
22.5°	4170.2	4212.5	4231.0	4347.4	4617.1	4942.4	5391.9	5426.3	5815.0	5690.7	5045.5
25°	4286.5	4231.0	4236.3	4328.9	4582.7	4873.6	5333.7	5410.4	5897.0	5783.3	4989.9
27.5°	4305.1	4360.6	4376.5	4439.9	4609.2	4894.8	5479.2	5635.2	6100.6	6000.1	5005.8
30°	4466.4	4521.9	4519.2	4627.7	4744.0	5066.6	5804.4	5836.2	6521.0	6272.5	5103.7
32.5°	4662.0	4720.2	4738.7	4865.7	4958.2	5381.3	6201.1	6283.1	6925.6	6700.9	5360.2
35°	4905.3	4884.2	4968.8	5095.7	5294.1	5841.4	6685.0	6822.5	7362.0	7256.2	5624.6
37.5°	5209.4	5183.0	5265.0	5471.2	5741.0	6386.2	7131.9	7221.8	7679.3	7771.8	6113.8
40°	5423.6	5434.2	5682.8	5960.4	6246.0	6904.5	7414.8	7502.1	7901.4	8253.1	6484.0
42.5°	5780.6	5846.7	6145.5	6484.0	6782.8	7293.2	7644.9	7729.5	8004.5	8639.2	6983.8
45°	6298.9	6269.8	6600.4	6978.5	7309.1	7697.8	7917.3	7888.2	8065.4	9022.6	7298.5
47.5°	6965.3	6970.6	7190.1	7512.7	7856.5	8049.5	8221.4	8118.3	8192.3	9427.2	7719.0
50°	7420.1	7459.8	7637.0	7967.5	8139.4	8435.6	8655.1	8591.6	8567.8	9670.5	7983.4
52.5°	7536.5	7655.5	7750.7	8163.2	8565.2	9033.2	9313.5	9448.4	9025.3	9752.5	8319.2
55°	6658.6	6764.3	7100.2	7666.1	8726.5	9979.9	10366.0	10368.6	9622.9	10117.4	8554.6
57.5°	5323.1	5108.9	5315.2	5915.5	7377.8	9940.2	10879.0	10754.7	9921.7	9903.2	8351.0
60°	3681.0	3628.1	3641.3	3879.3	5106.3	7906.7	9694.3	9855.6	9136.3	8583.7	6611.0
62.5°	2916.8	2871.8	2813.6	2787.2	3170.6	4926.5	6838.4	7065.8	6388.8	5566.4	3919.0
65°	2284.7	2258.3	2266.2	2372.0	2369.4	2795.1	3739.2	3646.6	2919.4	2157.8	1232.3
67.5°	1541.7	1581.3	1613.1	1933.0	2097.0	1946.3	1806.1	1753.2	949.3	399.3	272.4
70°	867.4	872.6	907.0	1208.5	1591.9	1509.9	1245.5	1245.5	473.3	145.4	156.0
72.5°	473.3	457.5	425.7	520.9	708.7	719.3	555.3	483.9	140.2	95.2	87.3
75°	230.1	227.4	195.7	161.3	153.4	126.9	97.8	89.9	63.5	60.8	52.9
77.5°	47.6	45.0	23.8	23.8	26.4	29.1	37.0	37.0	45.0	45.0	37.0
80°	0.0	0.0	2.6	10.6	18.5	26.4	31.7	31.7	37.0	37.0	29.1
82.5°	0.0	0.0	2.6	7.9	15.9	23.8	29.1	31.7	37.0	39.7	31.7
85°	0.0	0.0	0.0	5.3	13.2	18.5	15.9	15.9	13.2	10.6	5.3
87.5°	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6264.5	6264.5	6264.5	6264.5	6264.5	6264.5	6264.5	6264.5	6264.5	6264.5	6264.5
2.5°	6172.0	6166.7	6045.1	5976.3	5852.0	5743.6	5656.3	5592.9	5592.9	5553.2	5516.2
5°	5997.5	5952.5	5693.4	5526.8	5291.4	5116.9	4997.9	4905.3	4759.9	4799.6	4643.5
7.5°	5780.6	5666.9	5323.1	5069.3	4744.0	4495.5	4241.6	4016.8	3800.0	3702.1	3755.0
10°	5547.9	5349.6	4886.8	4484.9	4080.3	3625.4	3329.3	2969.6	2747.5	2734.3	2676.1
12.5°	5302.0	5077.2	4514.0	3958.6	3427.1	2879.7	2427.5	2091.7	1941.0	1774.4	1806.1
15°	5116.9	4783.7	4098.8	3429.8	2723.7	2171.0	1716.2	1457.1	1314.3	1274.6	1261.4
17.5°	4915.9	4558.9	3675.7	2866.5	2136.7	1562.8	1234.9	1110.6	1055.1	1055.1	1047.2
20°	4707.0	4305.1	3255.2	2342.9	1602.5	1166.2	989.0	949.3	946.7	944.0	944.0
22.5°	4569.5	4014.2	2874.4	1861.6	1208.5	933.5	859.4	843.6	854.1	885.9	885.9
25°	4424.1	3733.9	2454.0	1435.9	936.1	801.2	758.9	769.5	796.0	825.0	814.5
27.5°	4276.0	3551.4	2057.3	1126.5	766.9	700.8	684.9	708.7	737.8	764.2	756.3
30°	4241.6	3355.7	1681.8	854.1	658.5	610.9	621.4	642.6	671.7	682.3	692.8
32.5°	4294.5	3202.3	1377.7	700.8	573.8	560.6	560.6	571.2	589.7	613.5	605.6
35°	4445.2	3115.1	1089.5	608.2	526.2	513.0	510.4	520.9	531.5	539.5	531.5
37.5°	4675.3	3046.3	891.2	539.5	494.5	473.3	468.1	465.4	476.0	478.6	483.9
40°	4968.8	3083.3	756.3	497.1	462.8	439.0	423.1	423.1	423.1	431.0	433.7
42.5°	5286.1	3133.6	653.2	473.3	433.7	404.6	388.7	383.4	388.7	399.3	396.7
45°	5619.3	3231.4	587.1	436.3	407.2	370.2	349.1	343.8	357.0	378.1	375.5
47.5°	5931.3	3371.6	536.8	412.5	380.8	346.4	320.0	314.7	338.5	367.6	370.2
50°	6243.4	3614.9	518.3	394.0	362.3	322.6	298.8	293.5	320.0	357.0	364.9
52.5°	6603.0	3876.7	505.1	370.2	341.1	304.1	277.7	272.4	301.5	349.1	351.7
55°	6838.4	4098.8	494.5	327.9	301.5	275.0	253.9	251.2	282.9	325.3	335.8
57.5°	6563.4	3789.4	457.5	285.6	256.5	243.3	224.8	224.8	251.2	290.9	298.8
60°	4976.7	2493.7	325.3	230.1	216.8	208.9	201.0	201.0	222.1	251.2	253.9
62.5°	2914.1	1343.3	208.9	185.1	185.1	177.2	164.0	164.0	185.1	201.0	203.6
65°	864.7	431.0	169.2	158.7	156.0	142.8	129.6	126.9	142.8	150.7	148.1
67.5°	248.6	198.3	140.2	132.2	129.6	108.4	100.5	97.8	100.5	95.2	92.6
70°	148.1	134.9	108.4	111.1	97.8	79.3	71.4	68.8	63.5	55.5	50.2
72.5°	82.0	82.0	79.3	84.6	68.8	52.9	45.0	37.0	29.1	23.8	21.2
75°	50.2	52.9	55.5	58.2	45.0	34.4	29.1	18.5	10.6	5.3	5.3
77.5°	34.4	37.0	39.7	42.3	37.0	31.7	23.8	13.2	2.6	0.0	0.0
80°	26.4	29.1	34.4	37.0	39.7	42.3	31.7	13.2	2.6	0.0	0.0
82.5°	29.1	31.7	39.7	37.0	37.0	37.0	29.1	13.2	2.6	0.0	0.0
85°	5.3	7.9	13.2	13.2	18.5	23.8	18.5	5.3	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)