

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: P452577

Luminaire Tested: **GALN-SA3C-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452577
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-SA3C-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA 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: 20802 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

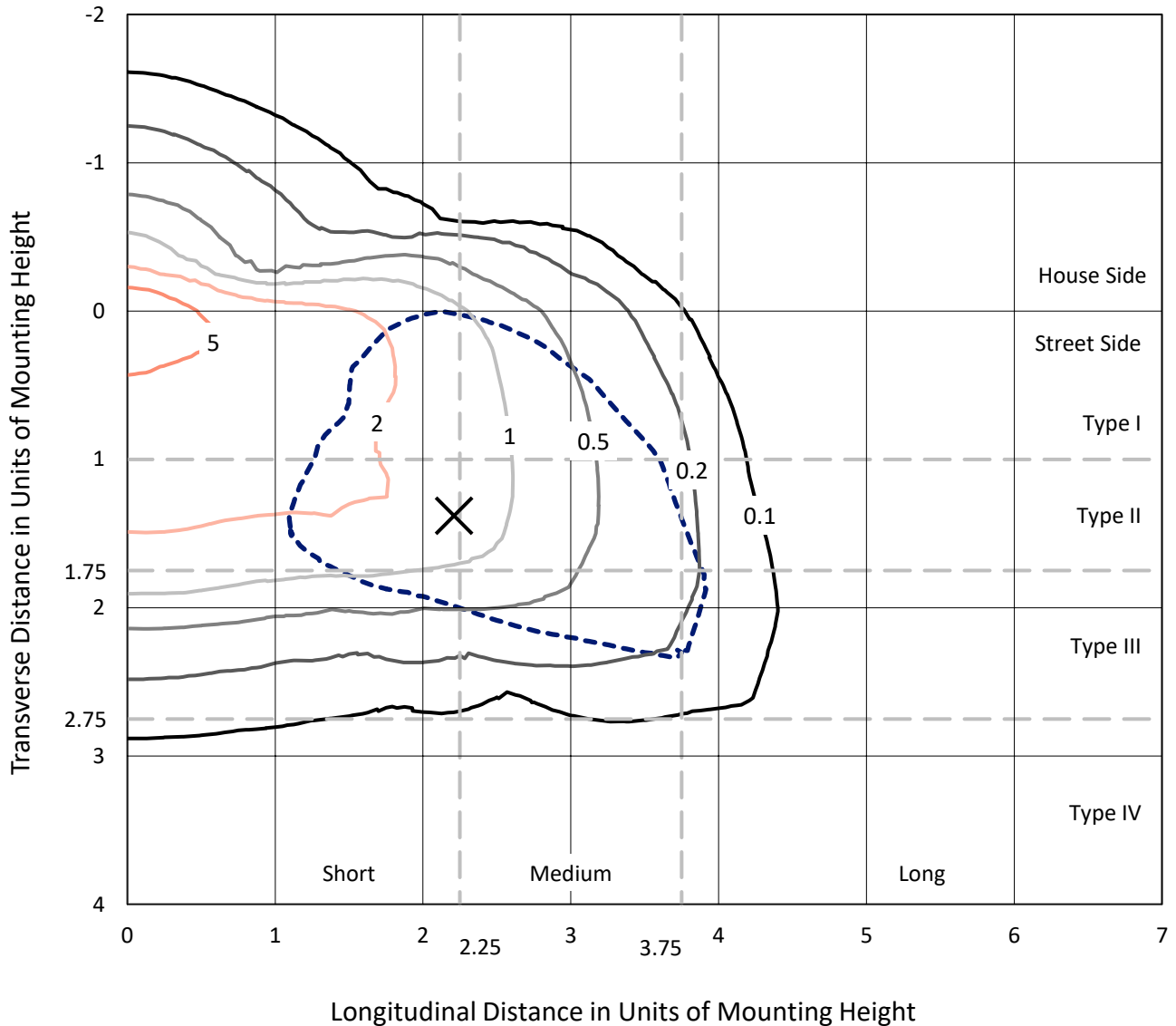
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

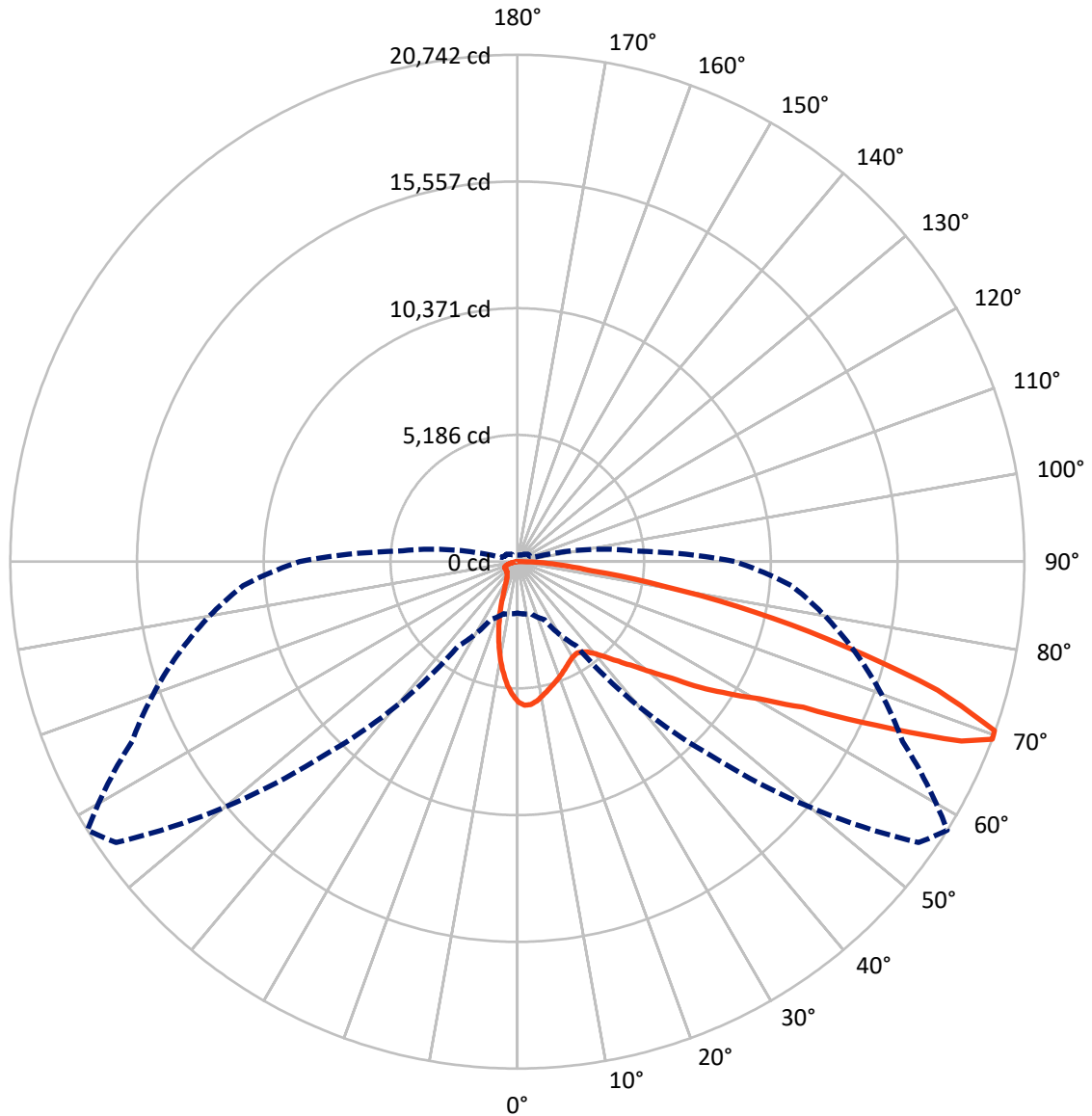
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	3048.5	0.0	3048.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	17753.5	0.0	17753.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	20802.0	0.0	20802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.2	2.3
10°-20°	1072.0	5.2
20°-30°	1385.0	6.7
30°-40°	1798.8	8.6
40°-50°	2615.3	12.6
50°-60°	4173.1	20.1
60°-70°	5574.7	26.8
70°-80°	3213.6	15.4
80°-90°	481.3	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°	20802.0	100.0
0°-180°	20802.0	100.0

Coefficient of Utilization



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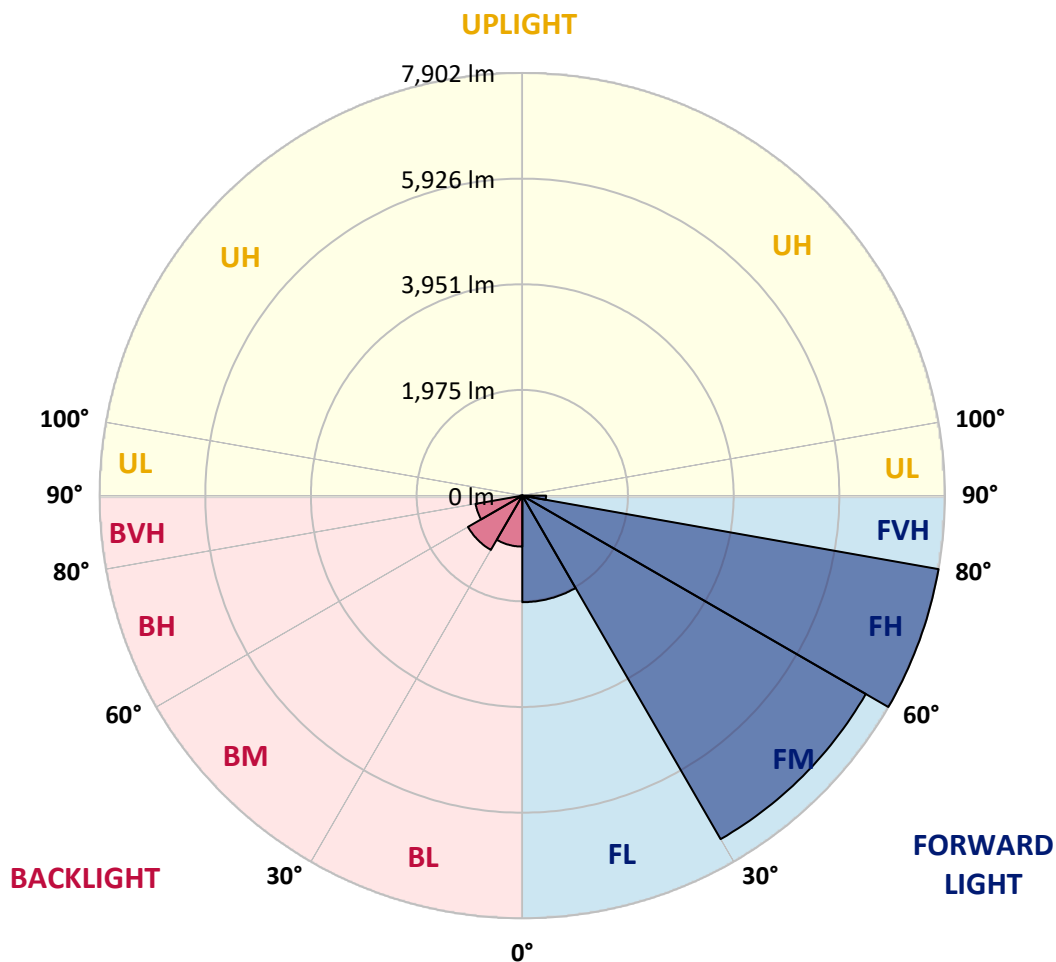
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1992.3	9.6			
FM	(30°-60°)	7414.8	35.6			
FH	(60°-80°)	7901.9	38.0			G4/12000
FVH	(80°-90°)	444.5	2.1			G3/500
BL	(0°-30°)	952.8	4.6	B2/1000		
BM	(30°-60°)	1172.4	5.6	B2/2500		
BH	(60°-80°)	886.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	36.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5
2.5°	5961.9	5978.2	5973.5	5967.7	5958.4	5932.9	5891.2	5884.2	5857.5	5800.7	5729.9
5°	5870.3	5884.2	5885.4	5893.5	5905.1	5900.4	5870.3	5866.8	5827.3	5750.8	5632.4
7.5°	5555.9	5574.4	5615.0	5660.3	5700.9	5739.2	5748.5	5754.3	5729.9	5641.7	5483.9
10°	5202.0	5220.6	5239.2	5306.4	5406.2	5501.3	5580.2	5590.7	5596.5	5515.3	5322.7
12.5°	4809.9	4848.2	4887.6	4987.4	5120.8	5270.5	5409.7	5431.7	5471.2	5409.7	5183.5
15°	4477.0	4516.4	4573.2	4662.6	4823.8	5039.6	5235.7	5271.6	5349.4	5318.0	5053.5
17.5°	4246.1	4260.0	4299.4	4401.5	4575.6	4802.9	5065.1	5137.1	5261.2	5253.1	4942.2
20°	4063.9	4081.3	4105.7	4168.4	4349.3	4589.5	4906.2	4999.0	5167.2	5195.1	4832.0
22.5°	3987.4	4000.1	3996.7	4030.3	4153.3	4394.6	4744.9	4855.2	5083.7	5155.6	4729.9
25°	3992.0	4003.6	3986.2	3978.1	4051.2	4222.9	4576.7	4717.1	5016.4	5128.9	4637.0
27.5°	4069.7	4077.9	4045.4	4012.9	4018.7	4116.1	4437.5	4593.0	4959.6	5140.5	4559.3
30°	4174.2	4189.2	4168.4	4128.9	4086.0	4090.6	4348.2	4501.3	4932.9	5181.2	4522.2
32.5°	4308.7	4322.7	4313.4	4282.0	4226.4	4164.9	4326.1	4467.7	4935.2	5263.5	4514.1
35°	4450.3	4478.1	4493.2	4490.9	4445.6	4338.9	4413.1	4530.3	4990.9	5401.6	4561.6
37.5°	4610.4	4633.6	4698.5	4740.3	4698.5	4574.4	4609.2	4690.4	5113.9	5601.1	4666.1
40°	4765.8	4800.6	4895.8	5025.7	5009.5	4900.4	4908.5	4961.9	5330.8	5898.1	4870.2
42.5°	4928.2	4970.0	5135.9	5328.5	5366.8	5282.1	5304.1	5351.7	5639.4	6310.0	5220.6
45°	5137.1	5187.0	5391.1	5631.3	5782.1	5729.9	5792.5	5815.7	6052.4	6845.9	5682.3
47.5°	5406.2	5464.2	5716.0	6015.3	6228.7	6276.3	6385.4	6371.4	6564.0	7480.5	6281.0
50°	5859.8	5892.3	6130.1	6435.3	6728.8	6943.4	7061.7	7083.8	7198.6	8097.7	6950.4
52.5°	6399.3	6428.3	6600.0	6866.8	7234.6	7689.4	7981.7	7909.8	7937.6	8849.5	7733.4
55°	7006.0	7054.8	7163.8	7341.3	7818.1	8487.5	9074.6	9092.0	8783.4	9568.8	8484.0
57.5°	7475.9	7558.3	7745.0	7998.0	8602.4	9375.0	10163.9	10175.5	9781.1	10336.8	9312.4
60°	7239.2	7336.7	7763.6	8379.6	9631.4	10923.8	11465.6	11399.5	10752.1	11211.5	10322.9
62.5°	6218.3	6235.7	6856.4	7819.3	9948.1	12995.8	13403.0	13123.4	12048.0	12320.6	11349.6
65°	4024.5	4138.2	4630.1	5979.3	8907.5	14145.5	16797.6	16151.4	13864.7	13579.3	12209.2
67.5°	2540.7	2511.7	2715.9	3414.3	6126.7	13132.7	19694.4	19592.3	16240.7	14374.0	12003.9
69°	2106.8	2139.3	2208.9	2617.3	4215.9	11212.7	20036.6	20742.0	17392.7	14311.4	11257.9
70°	1910.7	1925.8	1998.9	2320.3	3253.0	9391.3	19475.1	20710.7	17845.2	14049.2	10717.3
72.5°	1516.3	1515.1	1640.4	1930.5	2431.6	5361.0	15991.3	17980.9	17339.3	12828.7	8855.3
75°	1152.0	1170.6	1308.6	1633.5	2240.2	2929.3	11159.3	13847.3	13848.5	10132.6	5525.7
77.5°	830.7	842.3	1003.5	1371.3	2110.3	2374.8	7433.0	9931.9	9336.7	4642.8	1736.7
80°	544.1	551.1	674.0	1085.9	1902.6	2240.2	4407.3	6079.1	4403.9	1232.1	574.3
82.5°	298.2	333.0	411.8	703.0	1526.7	2069.7	2678.7	3076.7	1652.0	548.7	299.3
85°	149.7	158.9	232.0	410.7	997.7	1712.4	1865.5	1764.6	852.7	272.6	155.5
87.5°	44.1	55.7	96.3	158.9	404.9	892.1	1038.3	931.6	328.3	98.6	32.5
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°	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5
2.5°	5700.9	5680.0	5587.2	5503.7	5427.1	5345.9	5277.4	5217.1	5222.9	5224.1	5162.6
5°	5571.0	5523.4	5347.0	5182.3	5043.1	4866.8	4715.9	4618.5	4569.8	4504.8	4528.0
7.5°	5394.6	5303.0	5058.2	4784.4	4528.0	4299.4	4051.2	3880.6	3771.6	3666.0	3679.9
10°	5212.5	5065.1	4709.0	4347.0	4015.2	3649.8	3333.1	3061.6	2859.7	2784.3	2734.4
12.5°	5025.7	4832.0	4379.5	3898.0	3439.8	3002.4	2553.5	2262.3	2039.5	1921.2	1936.3
15°	4855.2	4619.6	4036.1	3449.1	2853.9	2333.0	1885.2	1607.9	1452.5	1420.0	1438.6
17.5°	4697.4	4388.8	3714.7	3012.9	2317.9	1749.5	1416.5	1259.9	1197.3	1179.9	1178.7
20°	4535.0	4192.7	3353.9	2546.5	1806.3	1356.2	1162.5	1089.4	1077.8	1084.7	1085.9
22.5°	4370.2	3950.3	2982.7	2083.6	1438.6	1109.1	1016.3	996.6	1005.8	1022.1	1024.4
25°	4218.2	3736.8	2625.4	1677.6	1148.5	974.5	929.3	929.3	950.1	974.5	975.7
27.5°	4092.9	3530.3	2269.2	1331.8	961.7	877.1	862.0	870.1	899.1	917.7	918.8
30°	3989.7	3337.7	1932.8	1067.3	845.7	799.3	795.9	809.8	830.7	848.1	849.2
32.5°	3912.0	3168.3	1618.4	896.8	765.7	740.2	739.0	749.4	761.0	765.7	770.3
35°	3881.8	3027.9	1330.7	788.9	712.3	696.1	696.1	694.9	699.6	701.9	704.2
37.5°	3906.2	2920.1	1107.9	719.3	672.9	661.3	654.3	647.4	645.0	645.0	646.2
40°	4009.4	2863.2	942.0	674.0	645.0	627.6	614.9	606.7	598.6	600.9	603.3
42.5°	4228.7	2873.6	829.5	643.9	620.7	596.3	577.7	568.5	562.7	569.6	568.5
45°	4577.9	2978.1	757.6	623.0	596.3	565.0	547.6	538.3	538.3	548.7	552.2
47.5°	5066.3	3177.6	719.3	606.7	577.7	540.6	523.2	516.3	518.6	536.0	537.1
50°	5662.6	3524.5	712.3	598.6	568.5	523.2	503.5	496.5	502.3	520.9	523.2
52.5°	6320.4	3971.1	746.0	599.8	560.3	512.8	487.3	476.8	482.6	497.7	502.3
55°	7100.0	4530.3	833.0	604.4	548.7	507.0	475.7	452.5	459.4	469.9	471.0
57.5°	7895.9	5235.7	986.1	605.6	539.5	496.5	455.9	425.8	425.8	432.7	436.2
60°	8868.1	6003.7	1188.0	606.7	540.6	481.5	429.2	395.6	391.0	394.4	395.6
62.5°	9833.3	6646.4	1221.6	603.3	552.2	466.4	400.2	365.4	357.3	356.2	353.8
65°	10259.0	6526.9	1001.2	587.0	565.0	457.1	377.0	336.4	322.5	317.9	317.9
67.5°	9565.3	5521.1	752.9	565.0	556.9	447.8	355.0	312.1	295.8	286.6	286.6
69°	8913.3	4910.8	676.4	549.9	536.0	432.7	341.1	299.3	279.6	269.2	265.7
70°	8409.8	4490.9	643.9	537.1	516.3	415.3	330.6	290.0	268.0	256.4	254.1
72.5°	6711.4	3523.3	563.8	488.4	439.7	349.2	293.5	261.0	240.1	227.4	223.9
75°	3867.9	1909.6	467.5	424.6	353.8	271.5	248.3	227.4	211.1	199.5	196.1
77.5°	1190.3	737.8	338.8	335.3	259.9	210.0	198.4	190.3	178.7	165.9	163.6
80°	501.2	375.9	229.7	226.2	172.9	146.2	142.7	141.5	136.9	126.5	123.0
82.5°	275.0	212.3	160.1	139.2	104.4	84.7	88.2	89.3	85.8	75.4	68.4
85°	134.6	116.0	77.7	62.6	47.6	30.2	29.0	34.8	32.5	23.2	25.5
87.5°	26.7	32.5	20.9	9.3	4.6	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)