

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: P452780

Luminaire Tested: **GALN-SA3D-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452780
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-SA3D-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA 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: 20846 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

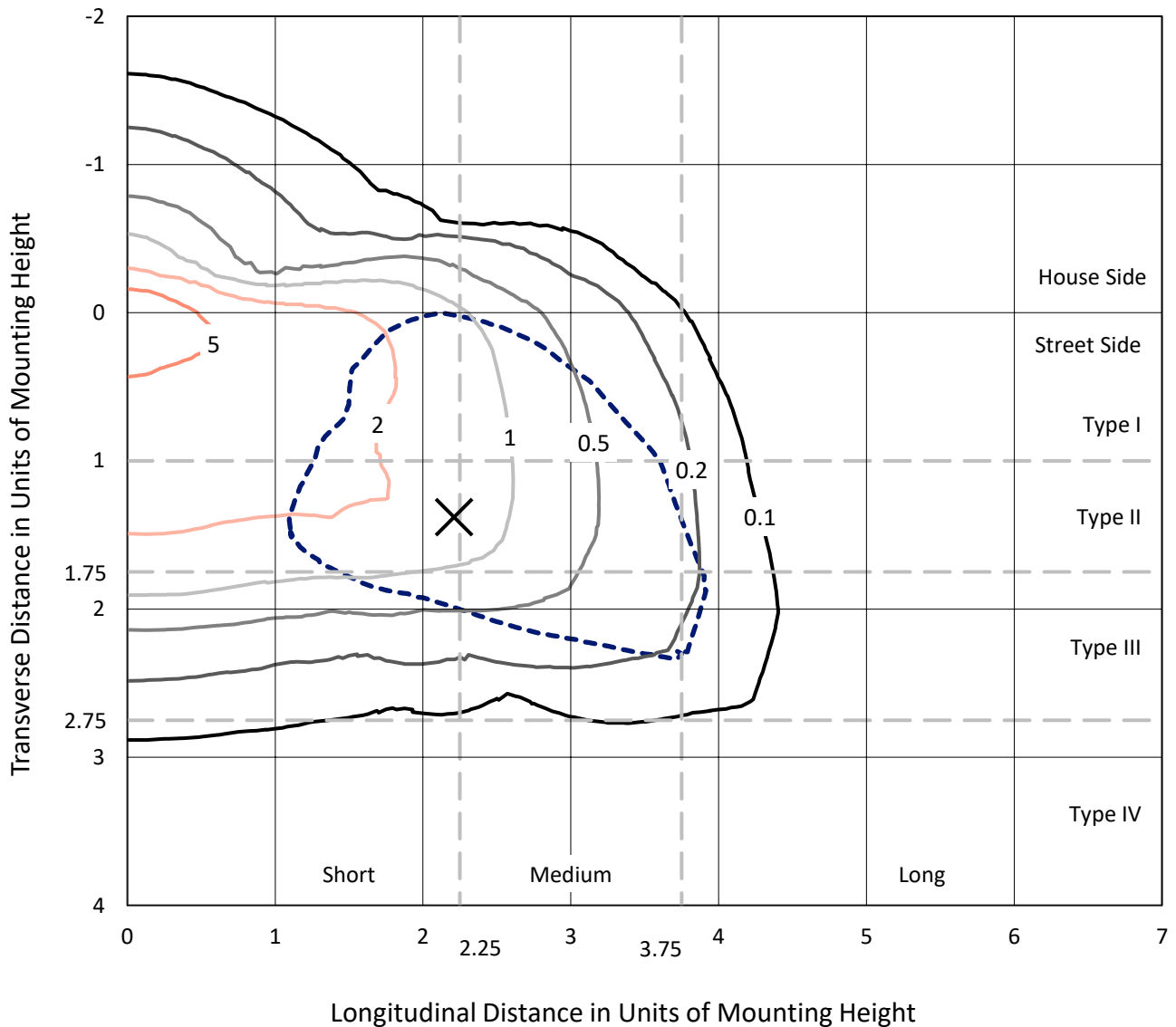
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

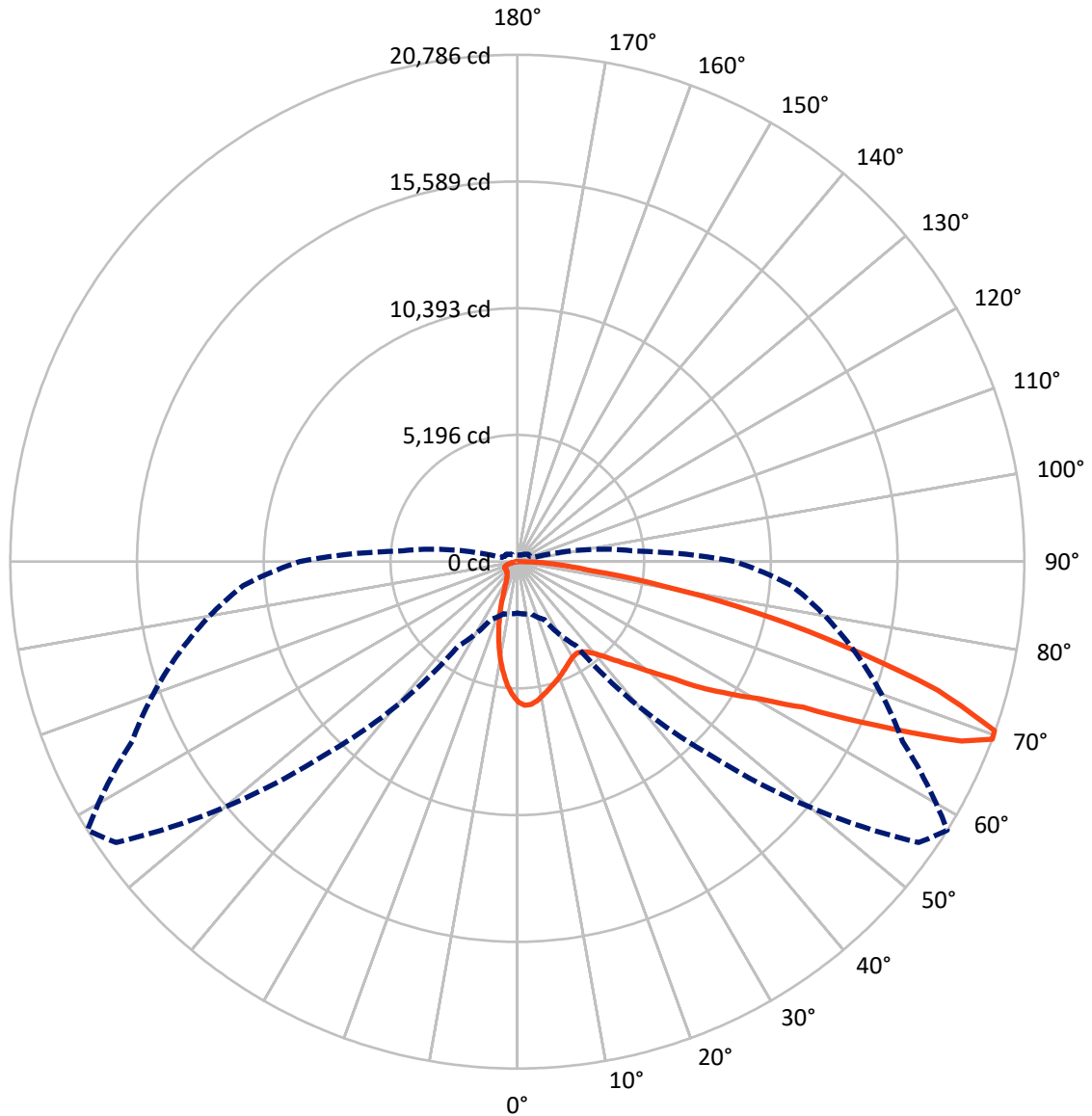
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	3055.0	0.0	3055.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	17791.0	0.0	17791.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	20846.0	0.0	20846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.2	2.3
10°-20°	1074.2	5.2
20°-30°	1387.9	6.7
30°-40°	1802.7	8.6
40°-50°	2620.8	12.6
50°-60°	4181.9	20.1
60°-70°	5586.5	26.8
70°-80°	3220.4	15.4
80°-90°	482.4	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°	20846.0	100.0
0°-180°	20846.0	100.0

Coefficient of Utilization



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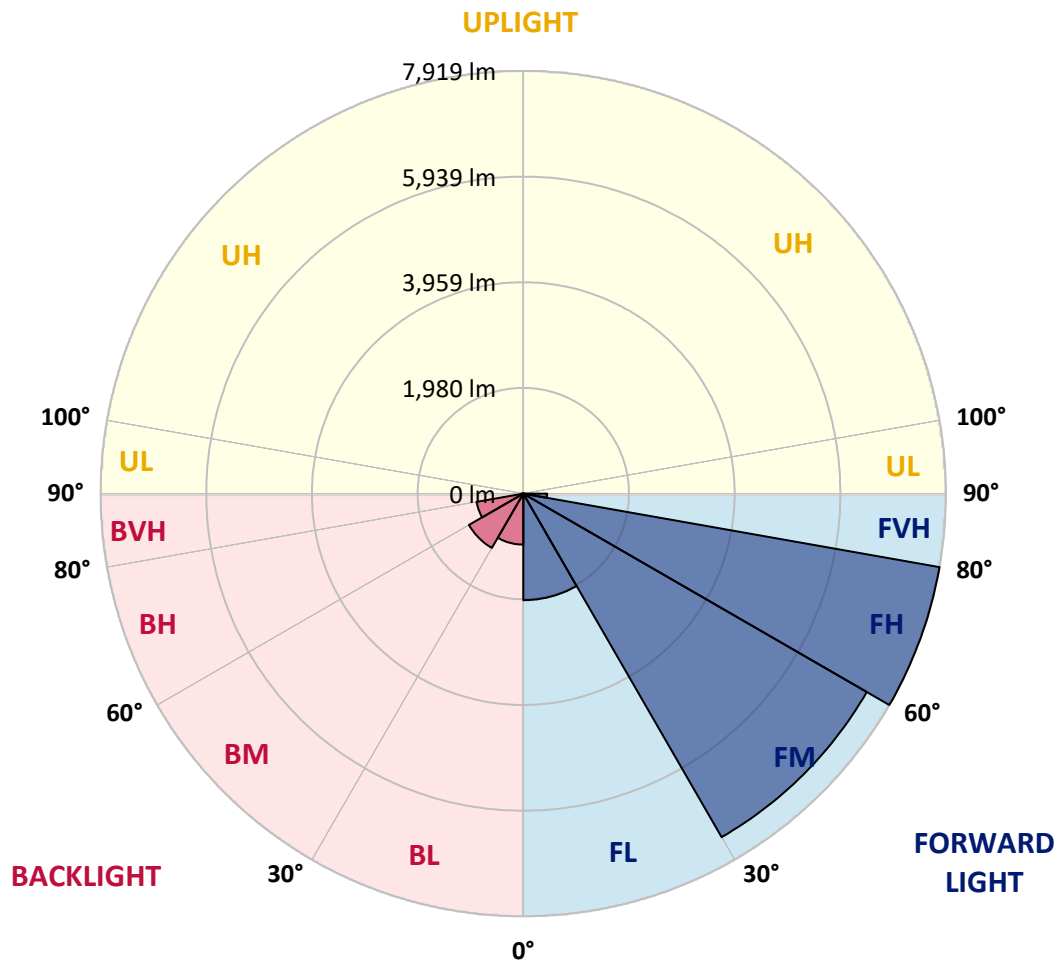
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1996.5	9.6			
FM (30°-60°)	7430.5	35.6			
FH (60°-80°)	7918.6	38.0			G4/12000
FVH (80°-90°)	445.4	2.1			G3/500
BL (0°-30°)	954.9	4.6	B2/1000		
BM (30°-60°)	1174.8	5.6	B2/2500		
BH (60°-80°)	888.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	37.0	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°	5760.6	5760.6	5760.6	5760.6	5760.6	5760.6	5760.6	5760.6	5760.6	5760.6	5760.6
2.5°	5974.5	5990.8	5986.2	5980.3	5971.0	5945.5	5903.6	5896.6	5869.9	5812.9	5742.0
5°	5882.7	5896.6	5897.8	5905.9	5917.6	5912.9	5882.7	5879.2	5839.7	5762.9	5644.4
7.5°	5567.6	5586.2	5626.9	5672.3	5712.9	5751.3	5760.6	5766.4	5742.0	5653.7	5495.5
10°	5213.0	5231.6	5250.2	5317.7	5417.7	5513.0	5592.0	5602.5	5608.3	5526.9	5333.9
12.5°	4820.1	4858.4	4898.0	4998.0	5131.7	5281.6	5421.1	5443.2	5482.8	5421.1	5194.4
15°	4486.4	4525.9	4582.9	4672.4	4834.0	5050.3	5246.8	5282.8	5360.7	5329.3	5064.2
17.5°	4255.1	4269.0	4308.5	4410.9	4585.2	4813.1	5075.9	5147.9	5272.3	5264.2	4952.6
20°	4072.5	4090.0	4114.4	4177.2	4358.5	4599.2	4916.6	5009.6	5178.2	5206.1	4842.2
22.5°	3995.8	4008.6	4005.1	4038.8	4162.1	4403.9	4755.0	4865.4	5094.5	5166.5	4739.9
25°	4000.5	4012.1	3994.6	3986.5	4059.8	4231.8	4586.4	4727.1	5027.0	5139.8	4646.9
27.5°	4078.4	4086.5	4053.9	4021.4	4027.2	4124.9	4446.9	4602.7	4970.1	5151.4	4569.0
30°	4183.0	4198.1	4177.2	4137.6	4094.6	4099.3	4357.4	4510.8	4943.3	5192.1	4531.8
32.5°	4317.8	4331.8	4322.5	4291.1	4235.3	4173.7	4335.3	4477.1	4945.6	5274.7	4523.6
35°	4459.7	4487.6	4502.7	4500.4	4455.0	4348.1	4422.5	4539.9	5001.4	5413.0	4571.3
37.5°	4620.1	4643.4	4708.5	4750.3	4708.5	4584.1	4619.0	4700.3	5124.7	5613.0	4675.9
40°	4775.9	4810.8	4906.1	5036.3	5020.0	4910.8	4918.9	4972.4	5342.1	5910.6	4880.5
42.5°	4938.7	4980.5	5146.8	5339.8	5378.1	5293.3	5315.3	5363.0	5651.3	6323.3	5231.6
45°	5147.9	5197.9	5402.5	5643.2	5794.3	5742.0	5804.8	5828.0	6065.2	6860.4	5694.3
47.5°	5417.7	5475.8	5728.1	6028.0	6241.9	6289.6	6398.9	6384.9	6577.9	7496.4	6294.2
50°	5872.2	5904.8	6143.1	6448.9	6743.0	6958.1	7076.7	7098.8	7213.8	8114.9	6965.1
52.5°	6412.8	6441.9	6614.0	6881.3	7249.9	7705.6	7998.6	7926.5	7954.4	8868.2	7749.8
55°	7020.9	7069.7	7179.0	7356.8	7834.7	8505.5	9093.7	9111.2	8801.9	9589.0	8502.0
57.5°	7491.7	7574.2	7761.4	8014.9	8620.6	9394.9	10185.4	10197.0	9801.8	10358.6	9332.1
60°	7254.5	7352.2	7780.0	8397.4	9651.8	10946.9	11489.8	11423.6	10774.8	11235.2	10344.7
62.5°	6231.5	6248.9	6870.9	7835.8	9969.2	13023.3	13431.4	13151.2	12073.5	12346.7	11373.6
65°	4033.0	4146.9	4639.9	5992.0	8926.3	14175.4	16833.1	16185.5	13894.1	13608.1	12235.1
67.5°	2546.1	2517.0	2721.6	3421.5	6139.6	13160.5	19736.1	19633.8	16275.0	14404.4	12029.3
69°	2111.3	2143.8	2213.6	2622.8	4224.8	11236.4	20079.0	20785.9	17429.5	14341.7	11281.7
70°	1914.8	1929.9	2003.1	2325.2	3259.9	9411.1	19516.3	20754.5	17882.9	14078.9	10740.0
72.5°	1519.5	1518.3	1643.9	1934.5	2436.8	5372.3	16025.1	18018.9	17376.0	12855.9	8874.0
75°	1154.4	1173.0	1311.4	1636.9	2245.0	2935.5	11182.9	13876.6	13877.8	10154.0	5537.4
77.5°	832.4	844.0	1005.6	1374.2	2114.7	2379.8	7448.7	9952.9	9356.5	4652.7	1740.4
80°	545.3	552.2	675.5	1088.2	1906.6	2245.0	4416.7	6092.0	4413.2	1234.7	575.5
82.5°	298.8	333.7	412.7	704.5	1530.0	2074.1	2684.4	3083.2	1655.5	549.9	299.9
85°	150.0	159.3	232.5	411.6	999.8	1716.0	1869.4	1768.3	854.5	273.2	155.8
87.5°	44.2	55.8	96.5	159.3	405.7	894.0	1040.5	933.6	329.0	98.8	32.6
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°	5760.6	5760.6	5760.6	5760.6	5760.6	5760.6	5760.6	5760.6	5760.6	5760.6	5760.6
2.5°	5712.9	5692.0	5599.0	5515.3	5438.6	5357.2	5288.6	5228.1	5234.0	5235.1	5173.5
5°	5582.7	5535.1	5358.4	5193.3	5053.8	4877.0	4725.9	4628.3	4579.4	4514.3	4537.6
7.5°	5406.0	5314.2	5068.9	4794.5	4537.6	4308.5	4059.8	3888.9	3779.6	3673.8	3687.7
10°	5223.5	5075.9	4718.9	4356.2	4023.7	3657.5	3340.1	3068.1	2865.8	2790.2	2740.2
12.5°	5036.3	4842.2	4388.8	3906.3	3447.1	3008.8	2558.9	2267.0	2043.8	1925.2	1940.4
15°	4865.4	4629.4	4044.6	3456.4	2860.0	2338.0	1889.2	1611.3	1455.6	1423.0	1441.6
17.5°	4707.3	4398.1	3722.6	3019.2	2322.8	1753.2	1419.5	1262.6	1199.8	1182.4	1181.2
20°	4544.5	4201.6	3361.0	2551.9	1810.1	1359.1	1164.9	1091.7	1080.0	1087.0	1088.2
22.5°	4379.5	3958.6	2989.0	2088.0	1441.6	1111.4	1018.4	998.7	1008.0	1024.2	1026.6
25°	4227.2	3744.7	2630.9	1681.1	1151.0	976.6	931.2	931.2	952.2	976.6	977.7
27.5°	4101.6	3537.7	2274.0	1334.6	963.8	878.9	863.8	871.9	901.0	919.6	920.8
30°	3998.1	3344.8	1936.9	1069.6	847.5	801.0	797.5	811.5	832.4	849.9	851.0
32.5°	3920.2	3175.0	1621.8	898.7	767.3	741.7	740.6	751.0	762.7	767.3	772.0
35°	3890.0	3034.3	1333.5	790.6	713.8	697.6	697.6	696.4	701.0	703.4	705.7
37.5°	3914.4	2926.2	1110.3	720.8	674.3	662.7	655.7	648.7	646.4	646.4	647.6
40°	4017.9	2869.3	944.0	675.5	646.4	629.0	616.2	608.0	599.9	602.2	604.5
42.5°	4237.6	2879.7	831.2	645.2	622.0	597.6	579.0	569.7	563.9	570.8	569.7
45°	4587.6	2984.4	759.2	624.3	597.6	566.2	548.7	539.4	539.4	549.9	553.4
47.5°	5077.0	3184.3	720.8	608.0	579.0	541.8	524.3	517.4	519.7	537.1	538.3
50°	5674.6	3531.9	713.8	599.9	569.7	524.3	504.6	497.6	503.4	522.0	524.3
52.5°	6333.8	3979.5	747.5	601.1	561.5	513.9	488.3	477.8	483.6	498.7	503.4
55°	7115.0	4539.9	834.7	605.7	549.9	508.1	476.7	453.4	460.4	470.8	472.0
57.5°	7912.6	5246.8	988.2	606.9	540.6	497.6	456.9	426.7	426.7	433.6	437.1
60°	8886.8	6016.4	1190.5	608.0	541.8	482.5	430.2	396.4	391.8	395.3	396.4
62.5°	9854.1	6660.5	1224.2	604.5	553.4	467.4	401.1	366.2	358.1	356.9	354.6
65°	10280.7	6540.7	1003.3	588.3	566.2	458.1	377.8	337.1	323.2	318.5	318.5
67.5°	9585.5	5532.7	754.5	566.2	558.0	448.8	355.8	312.7	296.5	287.2	287.2
69°	8932.1	4921.2	677.8	551.1	537.1	433.6	341.8	299.9	280.2	269.7	266.2
70°	8427.6	4500.4	645.2	538.3	517.4	416.2	331.3	290.6	268.6	256.9	254.6
72.5°	6725.6	3530.8	565.0	489.4	440.6	349.9	294.1	261.6	240.7	227.9	224.4
75°	3876.1	1913.6	468.5	425.5	354.6	272.0	248.8	227.9	211.6	200.0	196.5
77.5°	1192.8	739.4	339.5	336.0	260.4	210.4	198.8	190.7	179.0	166.2	163.9
80°	502.2	376.7	230.2	226.7	173.2	146.5	143.0	141.8	137.2	126.7	123.2
82.5°	275.5	212.8	160.4	139.5	104.6	84.9	88.4	89.5	86.0	75.6	68.6
85°	134.9	116.3	77.9	62.8	47.7	30.2	29.1	34.9	32.6	23.3	25.6
87.5°	26.7	32.6	20.9	9.3	4.7	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)