

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: P383029

Luminaire Tested: **GLEON-SA3D-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3D-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA 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: 20969.1 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

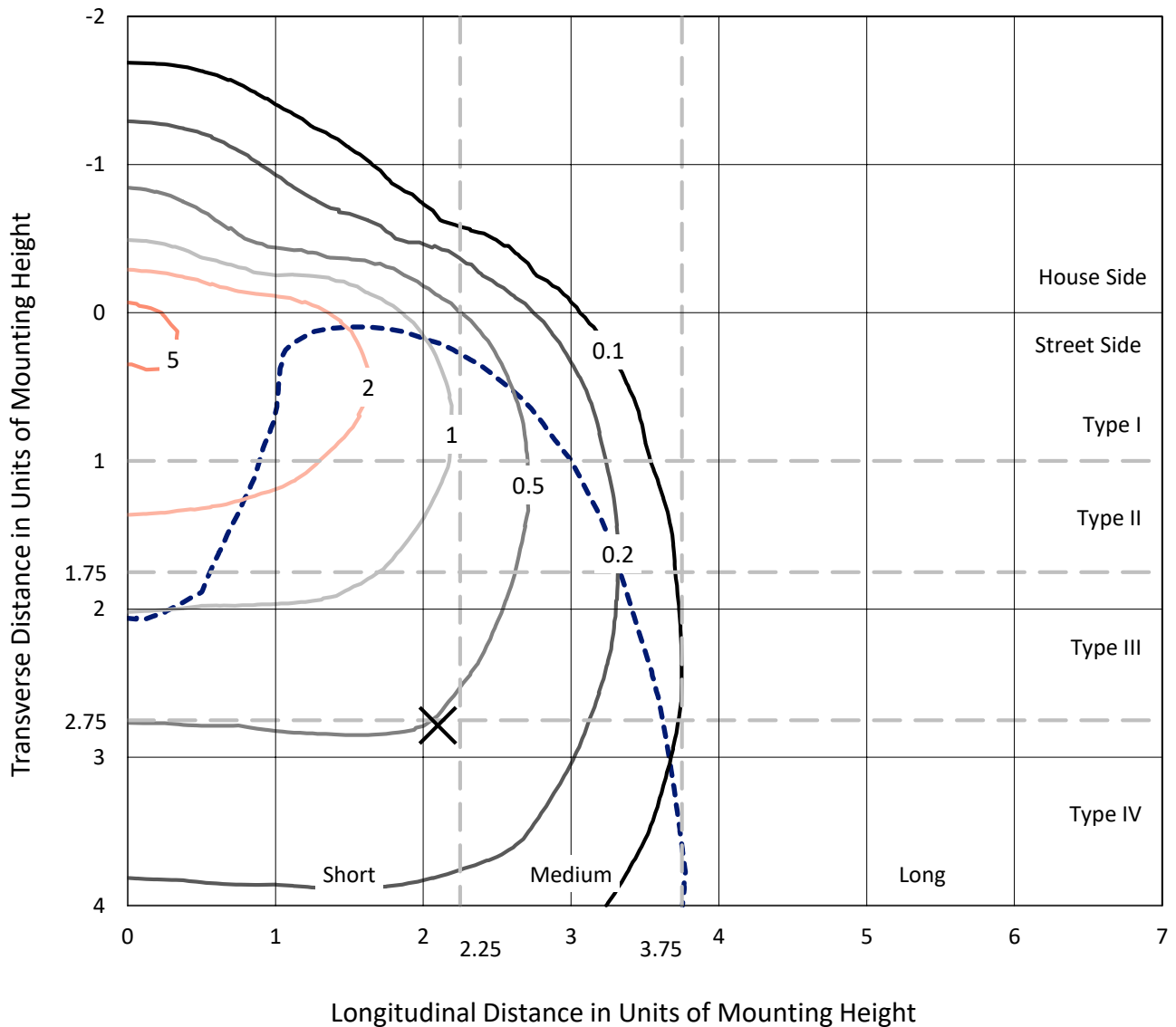
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

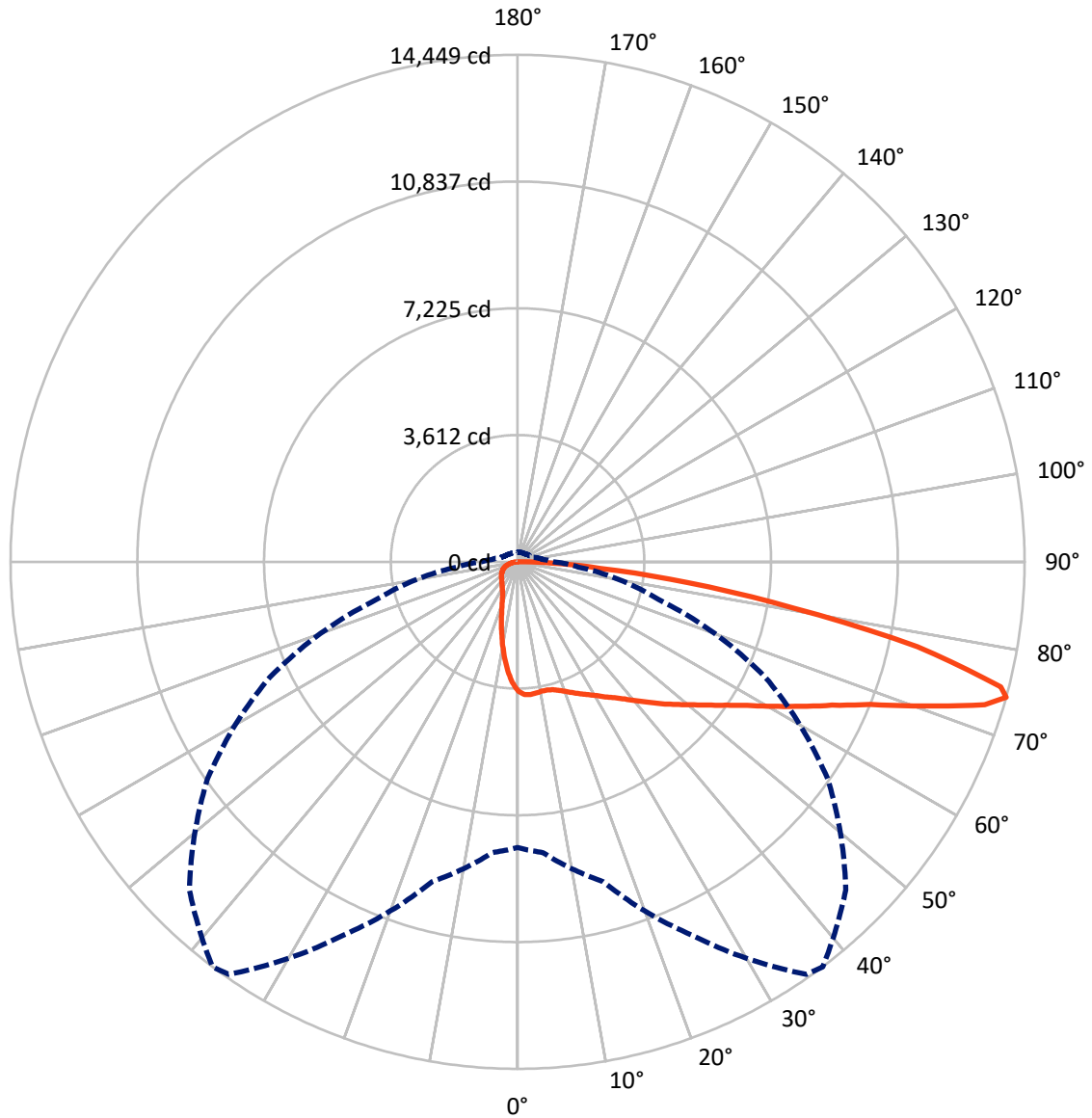
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2885.2	0.0	2885.2
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	18083.9	0.0	18083.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	20969.1	0.0	20969.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.4	1.6
10°-20°	834.0	4.0
20°-30°	1285.0	6.1
30°-40°	1868.6	8.9
40°-50°	2750.2	13.1
50°-60°	3862.2	18.4
60°-70°	4888.4	23.3
70°-80°	4304.4	20.5
80°-90°	851.1	4.1
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°	20969.1	100.0
0°-180°	20969.1	100.0

Coefficient of Utilization

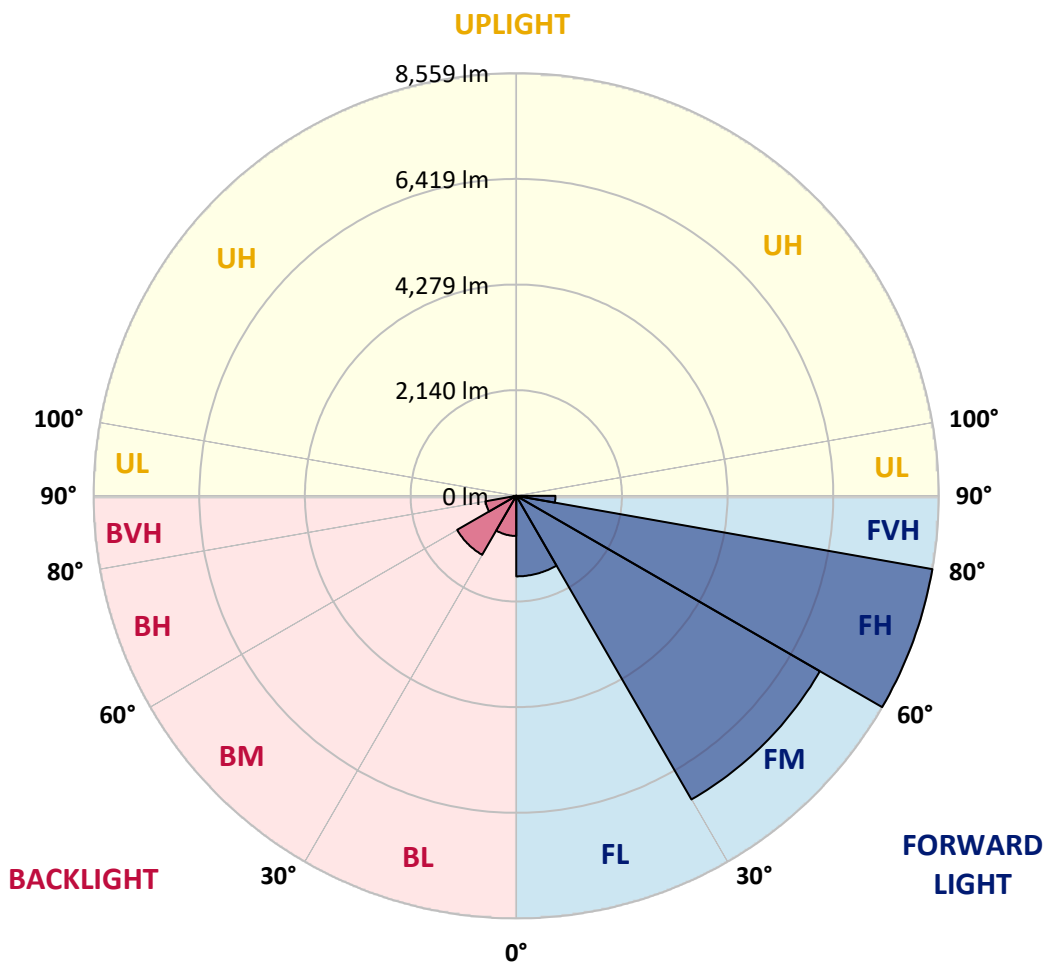


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1631.6	7.8			
FM (30°-60°)	7100.3	33.9			
FH (60°-80°)	8558.5	40.8			G4/12000
FVH (80°-90°)	793.4	3.8			G5
BL (0°-30°)	812.7	3.9	B2/1000		
BM (30°-60°)	1380.7	6.6	B2/2500		
BH (60°-80°)	634.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	57.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3694.7	3694.7	3694.7	3694.7	3694.7	3694.7	3694.7	3694.7	3694.7	3694.7	3694.7
2.5°	3821.0	3821.8	3821.0	3815.1	3801.1	3789.3	3779.7	3765.6	3734.6	3710.9	3675.5
5°	3857.2	3852.8	3849.8	3838.7	3816.6	3803.2	3784.8	3758.2	3707.3	3660.0	3602.4
7.5°	3840.2	3835.0	3828.4	3815.1	3790.0	3778.9	3753.0	3718.3	3657.0	3594.9	3512.2
10°	3787.8	3786.3	3783.3	3780.4	3759.0	3750.0	3726.5	3689.5	3628.9	3553.6	3456.9
12.5°	3729.4	3733.1	3744.9	3760.4	3750.8	3746.4	3731.6	3706.5	3644.5	3563.2	3446.5
15°	3692.5	3702.8	3734.6	3775.2	3783.3	3781.8	3778.2	3761.9	3696.2	3606.0	3470.1
17.5°	3679.9	3696.9	3757.5	3824.7	3848.3	3853.5	3854.9	3826.9	3753.8	3658.5	3494.5
20°	3702.8	3724.2	3812.8	3905.2	3942.9	3945.8	3939.1	3890.4	3808.4	3703.6	3507.8
22.5°	3772.2	3791.4	3902.3	4006.4	4049.3	4053.6	4033.7	3959.8	3866.0	3756.7	3526.3
25°	3905.9	3929.5	4040.4	4144.5	4166.6	4167.4	4138.6	4047.0	3941.4	3831.4	3566.2
27.5°	4080.3	4103.9	4203.6	4305.5	4293.7	4287.1	4248.0	4156.3	4039.7	3934.0	3637.0
30°	4274.5	4300.4	4394.9	4467.3	4439.2	4426.0	4394.2	4276.0	4176.3	4074.3	3745.7
32.5°	4475.4	4499.1	4581.8	4631.3	4595.8	4589.9	4541.9	4434.1	4354.3	4288.6	3921.4
35°	4681.5	4698.5	4779.8	4807.8	4760.6	4759.1	4745.8	4646.7	4596.5	4627.6	4177.1
37.5°	4892.0	4896.5	4965.9	4967.4	4953.3	4959.3	4973.3	4911.2	4925.3	5022.0	4509.4
40°	5079.6	5091.5	5141.7	5157.2	5181.5	5202.2	5272.4	5231.8	5340.4	5511.8	4923.0
42.5°	5218.5	5241.4	5321.9	5361.8	5440.8	5473.3	5572.3	5610.0	5828.6	6085.6	5415.0
45°	5335.9	5371.4	5500.7	5582.7	5716.3	5773.2	5915.0	6041.4	6380.4	6708.4	5932.7
47.5°	5463.0	5508.1	5669.8	5826.4	6008.1	6072.4	6330.1	6519.2	6969.1	7334.7	6421.0
50°	5649.8	5684.6	5842.7	6088.6	6315.3	6398.1	6754.8	7025.9	7567.3	7931.6	6844.3
52.5°	5910.6	5897.3	6031.0	6376.0	6680.2	6782.2	7208.4	7565.2	8173.8	8471.5	7201.7
55°	6172.8	6150.6	6244.4	6676.6	7105.8	7212.8	7707.7	8106.6	8750.7	8957.5	7475.8
57.5°	6464.6	6422.5	6501.6	7015.6	7590.2	7718.1	8266.8	8682.0	9318.0	9350.4	7650.1
60°	6765.2	6708.4	6796.9	7435.9	8205.5	8356.3	8921.3	9243.4	9852.7	9665.1	7706.2
62.5°	7028.2	6988.3	7124.9	7904.9	8899.2	9064.6	9563.9	9840.2	10380.1	9795.9	7503.9
65°	7257.9	7264.5	7500.9	8432.3	9672.5	9849.1	10301.1	10575.9	10795.2	9718.3	7030.4
67.5°	7531.9	7569.6	7972.9	9126.7	10646.0	10839.6	11373.5	11378.0	11027.2	9263.3	6098.2
70°	7931.6	8009.1	8622.1	10089.9	12030.3	12296.1	12708.4	11849.3	10701.4	8029.8	4798.2
72.5°	8286.1	8430.9	9312.8	11191.9	13717.3	13918.9	13489.1	11577.5	9340.1	6017.7	2989.2
74°	8142.0	8321.5	9438.3	11734.8	14352.5	14449.3	13225.4	10784.2	7787.5	4167.4	1737.2
75°	7831.8	8026.8	9255.2	11729.6	14272.1	14218.1	12588.7	9877.9	6413.6	2842.2	1156.0
77.5°	6320.6	6526.6	7798.5	10052.9	11702.3	11651.3	9670.3	6626.4	2809.1	932.2	587.2
80°	3674.8	3832.1	4841.1	6384.1	7890.9	7983.3	6359.7	3278.9	1105.0	523.7	398.1
82.5°	1632.4	1741.0	2338.6	3258.9	4762.0	4880.9	3330.6	1718.1	682.5	318.3	239.3
85°	1071.0	1151.6	1419.7	1551.9	2267.7	2348.9	1630.2	1337.7	450.6	175.0	175.8
87.5°	770.4	848.0	1054.8	921.1	1040.7	985.4	887.1	1237.9	181.0	99.7	59.1
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°	3694.7	3694.7	3694.7	3694.7	3694.7	3694.7	3694.7	3694.7	3694.7	3694.7	3694.7
2.5°	3660.0	3648.1	3621.6	3571.4	3543.2	3519.7	3480.4	3457.5	3447.2	3446.5	3450.9
5°	3569.1	3541.7	3473.1	3388.9	3321.7	3260.3	3184.3	3138.5	3106.0	3086.8	3092.0
7.5°	3463.5	3420.6	3312.8	3178.3	3070.6	2951.6	2834.1	2764.0	2709.3	2668.7	2676.1
10°	3391.1	3332.1	3174.7	2981.1	2801.6	2628.8	2467.0	2370.3	2293.5	2234.4	2238.8
12.5°	3366.7	3287.0	3069.1	2810.6	2558.7	2322.3	2111.1	1962.6	1883.5	1816.3	1821.5
15°	3370.4	3263.3	2980.4	2656.9	2340.0	2042.3	1786.1	1612.4	1505.4	1458.8	1459.5
17.5°	3373.4	3236.0	2887.3	2492.2	2123.6	1780.8	1502.4	1326.6	1225.5	1182.6	1183.3
20°	3363.7	3191.7	2772.1	2303.1	1897.6	1540.8	1271.2	1122.0	1045.2	1011.9	1011.9
22.5°	3351.2	3139.2	2642.1	2113.2	1674.5	1332.5	1105.7	992.0	947.7	925.5	924.7
25°	3357.1	3100.1	2509.1	1918.2	1469.1	1166.3	995.7	920.4	890.8	876.8	876.0
27.5°	3388.9	3081.7	2386.5	1724.0	1289.6	1041.5	921.9	868.7	849.5	840.5	840.5
30°	3446.5	3081.7	2258.7	1558.6	1140.5	949.2	864.9	828.8	815.5	809.5	809.5
32.5°	3547.0	3098.6	2135.4	1394.5	1021.5	876.8	817.7	793.3	783.0	780.0	780.0
35°	3719.8	3156.2	2015.0	1239.4	925.5	817.7	772.6	758.6	751.2	750.5	752.7
37.5°	3962.8	3273.6	1902.0	1124.9	857.6	769.6	735.0	723.9	719.4	723.2	726.0
40°	4268.6	3433.2	1799.3	1021.5	805.9	731.3	700.2	692.9	690.6	695.8	700.2
42.5°	4637.9	3648.9	1715.2	946.9	766.0	698.8	670.7	661.9	659.6	665.5	671.5
45°	5037.5	3880.8	1656.0	891.6	735.0	674.3	644.8	635.2	630.8	633.7	640.4
47.5°	5400.9	4100.2	1632.4	852.4	705.4	653.7	621.9	610.2	602.7	601.2	606.4
50°	5707.5	4263.4	1643.4	828.8	681.8	630.8	599.7	586.5	575.4	568.7	572.4
52.5°	5930.5	4366.1	1653.8	818.5	663.3	605.7	575.4	562.8	548.0	537.0	537.0
55°	6092.3	4389.7	1631.0	810.3	649.3	578.4	548.0	536.3	521.5	508.9	507.4
57.5°	6155.9	4323.2	1546.0	798.4	639.7	552.5	519.2	510.4	497.8	483.1	482.4
60°	6070.2	4117.9	1382.0	773.4	627.1	531.1	490.5	484.6	478.6	464.6	463.9
62.5°	5725.9	3667.3	1170.0	722.4	602.0	508.2	463.9	466.8	467.5	457.9	456.5
65°	5101.8	3048.4	963.2	655.9	564.3	480.9	436.5	450.6	458.7	457.2	455.0
67.5°	4194.8	2372.6	816.2	585.8	514.9	443.2	407.0	423.2	429.9	435.0	433.5
70°	3113.3	1673.1	675.1	511.9	455.0	398.9	368.6	376.7	372.2	378.2	380.4
72.5°	1735.8	1003.8	550.3	438.0	392.9	347.2	325.8	324.3	314.7	314.7	314.7
74°	1041.5	736.4	483.8	392.2	355.3	313.2	294.7	288.0	279.2	279.9	279.2
75°	837.6	633.0	443.9	361.9	328.6	293.3	274.8	266.0	259.2	259.2	258.5
77.5°	528.8	480.9	357.5	288.0	263.0	241.6	229.0	217.1	217.1	216.4	215.7
80°	399.6	382.6	278.4	217.9	201.7	185.4	177.3	172.1	172.1	174.3	173.5
82.5°	274.1	288.0	195.7	152.1	144.0	132.2	130.7	131.4	129.3	126.3	125.6
85°	200.2	216.4	132.2	96.0	87.9	80.5	86.4	89.3	85.7	79.0	76.1
87.5°	76.9	141.8	70.9	39.9	36.9	31.8	36.9	38.4	41.4	32.5	33.3
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)