

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: P455015

Luminaire Tested: **GALN-SA6A-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA 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: 21093 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 182
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

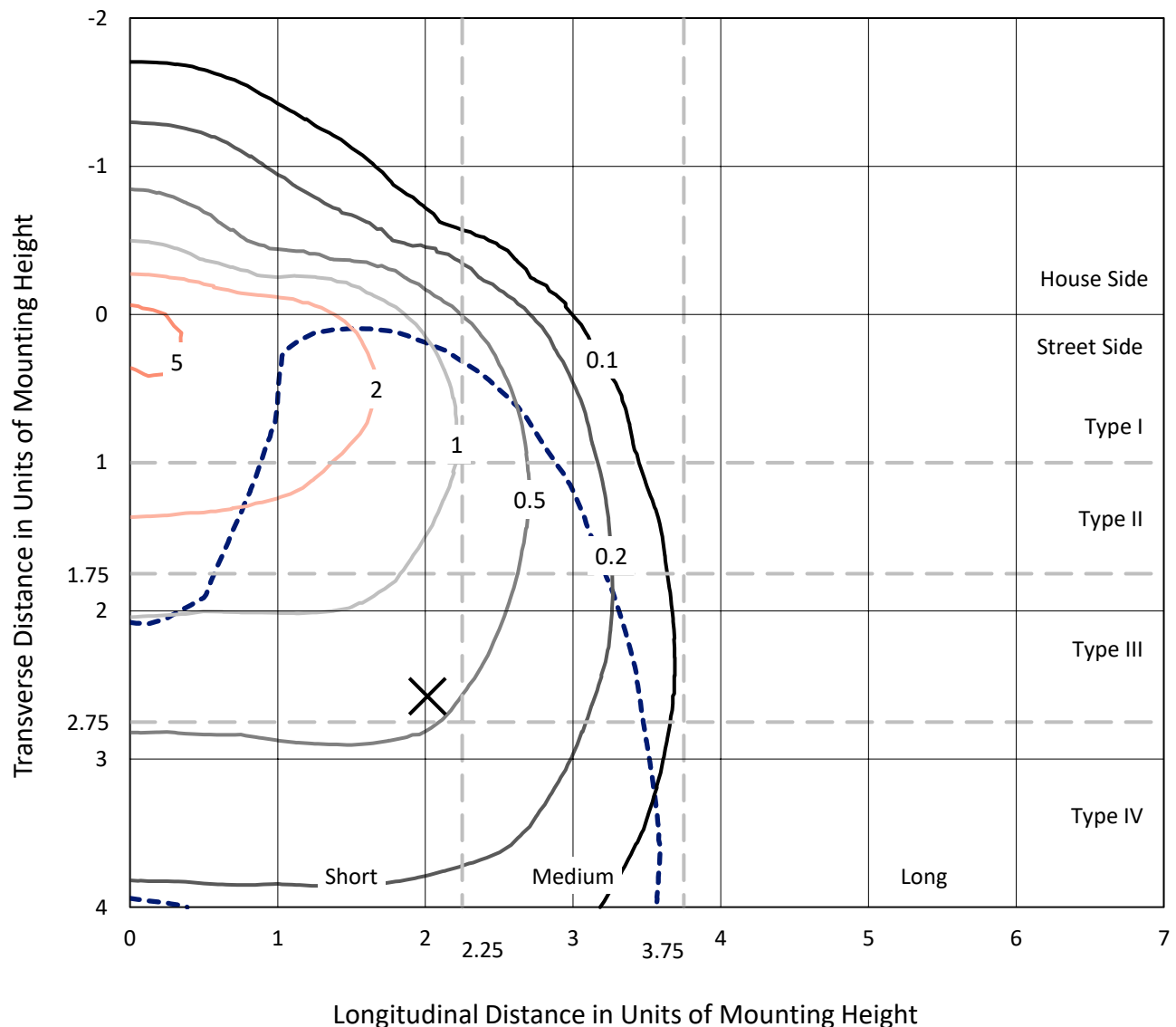


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

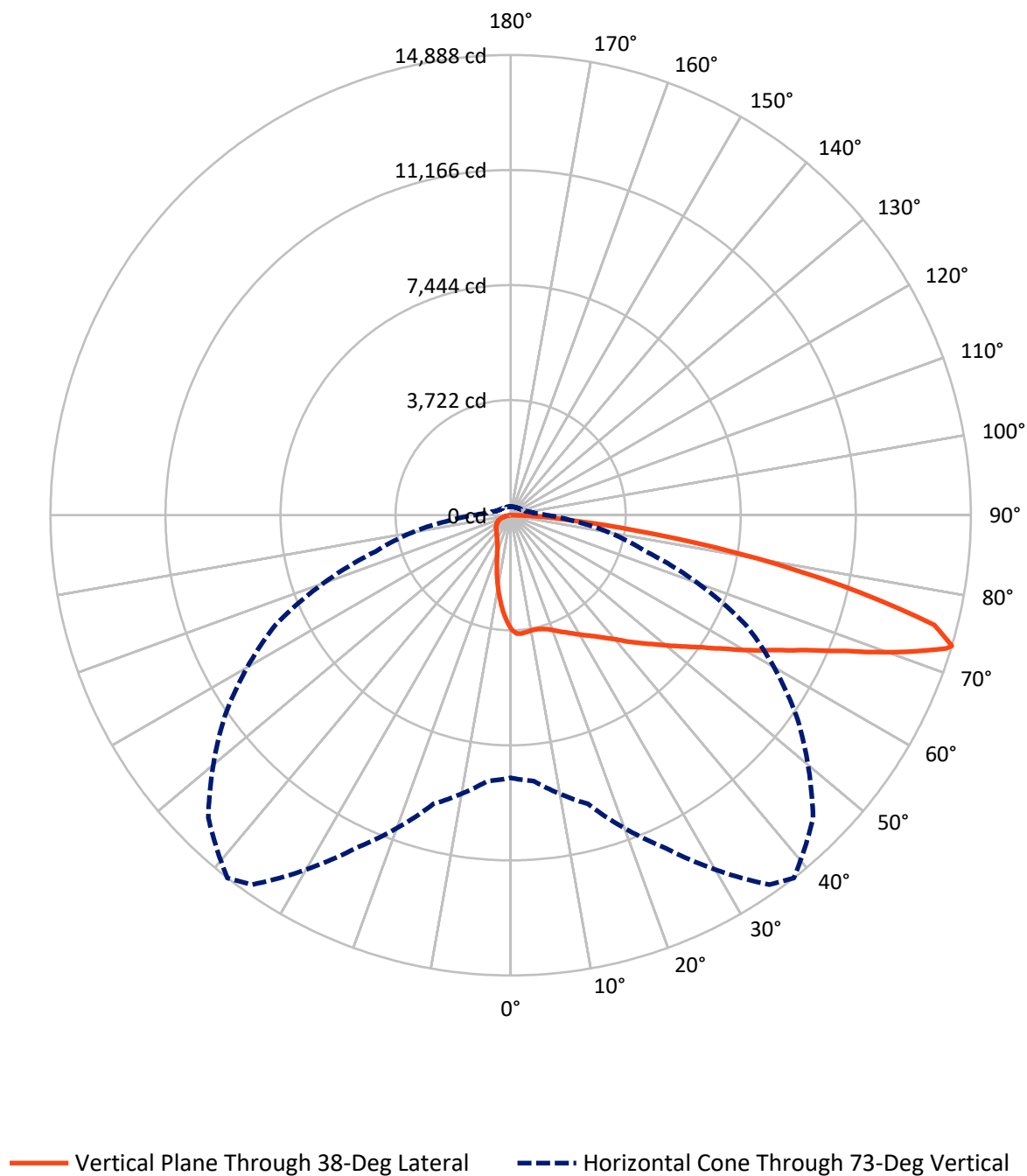


Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2835.5	0.0	2835.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	18257.5	0.0	18257.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	21093.0	0.0	21093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.5	1.5
10°-20°	829.5	3.9
20°-30°	1291.6	6.1
30°-40°	1894.5	9.0
40°-50°	2810.3	13.3
50°-60°	3981.7	18.9
60°-70°	5050.9	23.9
70°-80°	4204.5	19.9
80°-90°	706.4	3.3
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°	21093.0	100.0
0°-180°	21093.0	100.0

Coefficient of Utilization



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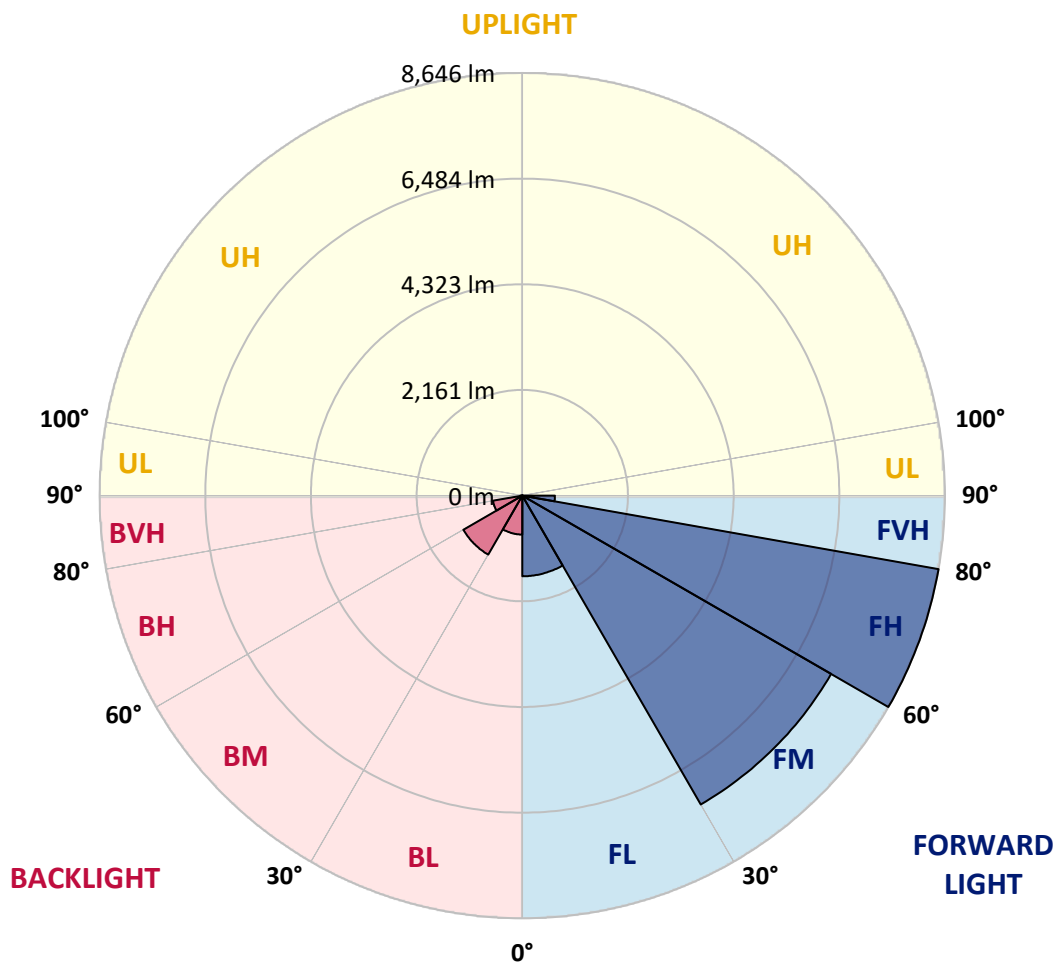
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1648.9	7.8			
FM	(30°-60°)	7294.5	34.6			
FH	(60°-80°)	8645.9	41.0			G4/12000
FVH	(80°-90°)	668.1	3.2			G4/750
BL	(0°-30°)	795.7	3.8	B2/1000		
BM	(30°-60°)	1392.1	6.6	B2/2500		
BH	(60°-80°)	609.5	2.9	B2/1000		G2/1000
BVH	(80°-90°)	38.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3705.7	3705.7	3705.7	3705.7	3705.7	3705.7	3705.7	3705.7	3705.7	3705.7	3705.7
2.5°	3854.6	3873.6	3864.1	3851.0	3842.7	3834.3	3822.4	3787.9	3760.5	3730.7	3684.2
5°	3883.2	3895.1	3886.7	3870.1	3851.0	3842.7	3820.0	3774.8	3730.7	3680.7	3611.6
7.5°	3866.5	3871.3	3861.7	3841.5	3824.8	3809.3	3783.1	3733.1	3679.5	3618.7	3528.2
10°	3806.9	3824.8	3824.8	3808.1	3791.4	3783.1	3756.9	3709.3	3660.4	3591.3	3484.1
12.5°	3758.1	3777.2	3792.6	3787.9	3786.7	3786.7	3766.4	3730.7	3673.5	3608.0	3480.6
15°	3724.7	3747.4	3780.7	3799.8	3811.7	3815.3	3806.9	3776.0	3717.6	3641.4	3494.8
17.5°	3717.6	3745.0	3805.7	3847.4	3878.4	3877.2	3874.8	3831.9	3767.6	3689.0	3512.7
20°	3749.8	3785.5	3870.1	3935.6	3980.8	3972.5	3959.4	3903.4	3828.4	3740.2	3529.4
22.5°	3846.2	3883.2	3976.1	4047.5	4091.6	4091.6	4052.3	3978.5	3898.6	3799.8	3552.0
25°	3984.4	4024.9	4123.8	4196.4	4216.7	4201.2	4161.9	4072.6	3980.8	3885.5	3599.7
27.5°	4153.6	4202.4	4294.1	4354.9	4348.9	4337.0	4296.5	4182.1	4090.4	4003.5	3680.7
30°	4364.4	4400.1	4495.4	4509.7	4488.3	4485.9	4428.7	4314.4	4228.6	4161.9	3796.2
32.5°	4563.3	4595.5	4671.7	4677.7	4639.5	4644.3	4590.7	4485.9	4437.1	4413.2	3990.4
35°	4774.1	4790.8	4856.3	4849.2	4824.2	4820.6	4799.2	4699.1	4714.6	4757.5	4265.5
37.5°	4950.4	4983.8	5020.7	5026.7	5025.5	5037.4	5051.7	5004.0	5093.4	5228.0	4626.4
40°	5112.4	5141.0	5195.8	5214.9	5261.3	5285.2	5334.0	5335.2	5541.3	5762.8	5070.7
42.5°	5222.0	5270.9	5373.3	5407.8	5521.0	5592.5	5665.1	5742.6	6041.5	6326.2	5594.9
45°	5317.3	5381.6	5552.0	5659.2	5812.8	5899.8	6053.4	6215.4	6645.5	7018.3	6127.3
47.5°	5461.4	5518.6	5714.0	5903.4	6135.6	6235.7	6465.6	6707.4	7269.6	7678.2	6637.1
50°	5661.6	5696.1	5895.0	6203.5	6500.1	6628.8	6932.5	7281.5	7936.7	8329.7	7085.0
52.5°	5917.7	5932.0	6090.4	6501.3	6892.0	7051.6	7454.2	7861.6	8520.3	8895.5	7440.0
55°	6220.2	6196.4	6320.3	6817.0	7339.9	7548.3	7980.7	8448.9	9176.7	9352.9	7698.4
57.5°	6519.2	6482.3	6581.1	7200.5	7892.6	8143.9	8647.8	9054.0	9762.7	9780.6	7879.5
60°	6836.0	6808.6	6926.6	7650.8	8570.4	8868.1	9333.9	9681.7	10329.7	10078.4	7908.1
62.5°	7161.2	7117.1	7285.1	8157.0	9333.9	9604.3	10055.7	10348.8	10886.0	10189.1	7632.9
65°	7476.9	7456.6	7716.3	8758.6	10203.4	10510.8	10949.1	11148.0	11331.5	10022.4	6950.4
67.5°	7812.8	7853.3	8267.8	9561.4	11337.4	11723.3	12196.2	12009.2	11458.9	9232.6	5853.3
70°	8325.0	8351.2	8992.0	10613.2	12799.0	13264.7	13493.4	12315.3	10844.3	7733.0	4400.1
72.5°	8545.3	8660.9	9638.8	11717.4	14459.4	14744.1	13929.4	11632.8	9033.7	5253.0	2312.0
73°	8496.5	8634.7	9668.6	11885.3	14589.3	14888.2	13836.5	11281.4	8397.6	4524.0	1982.1
75°	7887.8	8058.2	9281.5	11744.8	14336.7	14158.1	12342.7	9615.0	5674.7	2057.1	902.9
77.5°	6223.8	6272.6	7354.2	9484.0	11289.8	10958.6	9237.4	6009.4	2318.0	764.7	512.2
80°	3122.0	3301.9	4145.2	5432.9	7549.5	7441.1	5830.7	2842.1	966.0	449.1	339.5
82.5°	1502.0	1629.5	2019.0	2649.1	4171.4	4072.6	2887.4	1553.3	613.4	262.1	200.1
85°	967.2	1062.5	1285.3	1263.8	1715.3	1637.8	1297.2	1175.7	363.3	137.0	139.4
87.5°	638.5	699.2	838.6	670.6	624.2	564.6	572.9	662.3	71.5	52.4	19.1
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°	3705.7	3705.7	3705.7	3705.7	3705.7	3705.7	3705.7	3705.7	3705.7	3705.7	3705.7
2.5°	3665.2	3649.7	3598.5	3548.5	3500.8	3455.5	3425.8	3386.5	3360.2	3367.4	3378.1
5°	3573.5	3538.9	3448.4	3360.2	3276.9	3178.0	3098.2	3033.9	2985.0	2967.2	2963.6
7.5°	3477.0	3418.6	3288.8	3137.5	2995.8	2873.1	2731.3	2661.0	2578.9	2550.3	2540.7
10°	3418.6	3340.0	3157.8	2946.9	2733.7	2530.0	2376.4	2251.3	2138.1	2116.7	2106.0
12.5°	3401.9	3298.3	3052.9	2781.3	2497.9	2247.7	2020.2	1855.8	1746.2	1721.2	1684.3
15°	3392.4	3263.8	2955.3	2614.6	2254.9	1949.9	1710.5	1518.7	1418.7	1352.0	1353.2
17.5°	3384.1	3224.5	2845.7	2432.3	2045.2	1693.8	1429.4	1256.7	1164.9	1129.2	1125.6
20°	3372.2	3178.0	2719.4	2240.6	1805.8	1460.4	1220.9	1092.3	1030.3	1000.6	999.4
22.5°	3367.4	3132.7	2595.5	2045.2	1593.8	1280.5	1082.8	992.2	952.9	932.7	932.7
25°	3379.3	3100.6	2465.7	1859.4	1405.6	1126.8	987.5	925.5	902.9	892.2	888.6
27.5°	3416.2	3086.3	2337.0	1673.6	1232.8	1022.0	923.1	880.3	863.6	855.2	856.4
30°	3486.5	3085.1	2210.8	1490.1	1104.2	942.2	871.9	842.1	829.0	824.3	823.1
32.5°	3599.7	3111.3	2086.9	1338.9	995.8	875.5	824.3	802.8	796.9	793.3	792.1
35°	3791.4	3185.1	1964.2	1200.7	912.4	815.9	779.0	768.3	760.0	763.5	764.7
37.5°	4049.9	3312.6	1847.5	1092.3	849.3	771.9	740.9	731.4	726.6	730.2	733.8
40°	4396.6	3496.0	1749.8	1005.3	804.0	734.9	707.5	699.2	694.4	700.4	701.6
42.5°	4778.9	3708.1	1668.8	937.4	767.1	704.0	677.8	668.2	664.7	668.2	669.4
45°	5172.0	3954.6	1627.1	888.6	736.1	681.3	653.9	643.2	634.9	632.5	636.1
47.5°	5559.1	4169.0	1625.9	858.8	711.1	661.1	631.3	619.4	608.7	602.7	601.5
50°	5874.8	4339.4	1654.5	845.7	689.7	638.5	608.7	596.8	582.5	570.6	572.9
52.5°	6113.0	4450.2	1667.6	839.8	677.8	614.6	584.9	574.1	557.5	542.0	542.0
55°	6266.7	4476.4	1635.5	833.8	668.2	589.6	557.5	547.9	531.3	515.8	515.8
57.5°	6319.1	4395.4	1519.9	819.5	658.7	568.2	530.1	521.7	508.6	493.1	490.8
60°	6197.6	4121.4	1317.4	776.6	639.7	545.5	500.3	496.7	491.9	478.8	477.7
62.5°	5729.5	3540.1	1097.1	720.6	607.5	521.7	472.9	478.8	482.4	475.3	474.1
65°	4950.4	2874.3	937.4	643.2	564.6	488.4	443.1	458.6	468.1	468.1	465.7
67.5°	4015.4	2207.2	789.7	576.5	511.0	443.1	409.8	421.7	428.8	426.4	432.4
70°	2854.0	1494.9	643.2	500.3	443.1	391.9	366.9	366.9	362.1	359.7	359.7
72.5°	1384.1	854.1	521.7	418.1	377.6	334.7	314.5	306.1	296.6	295.4	289.5
73°	1156.6	765.9	497.9	402.6	362.1	326.4	303.7	290.6	284.7	279.9	278.7
75°	704.0	581.3	415.7	339.5	308.5	281.1	260.9	249.0	243.0	239.4	238.2
77.5°	463.4	433.6	322.8	259.7	235.8	219.2	210.8	198.9	195.3	190.6	190.6
80°	345.4	331.1	231.1	183.4	169.1	154.9	152.5	150.1	140.6	134.6	132.2
82.5°	222.7	235.8	157.2	122.7	107.2	95.3	96.5	100.1	90.5	82.2	79.8
85°	158.4	170.3	95.3	56.0	45.3	39.3	44.1	39.3	40.5	32.2	26.2
87.5°	26.2	45.3	16.7	7.1	3.6	2.4	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)