

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: P456042

Luminaire Tested: **GALN-SA7B-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28260 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

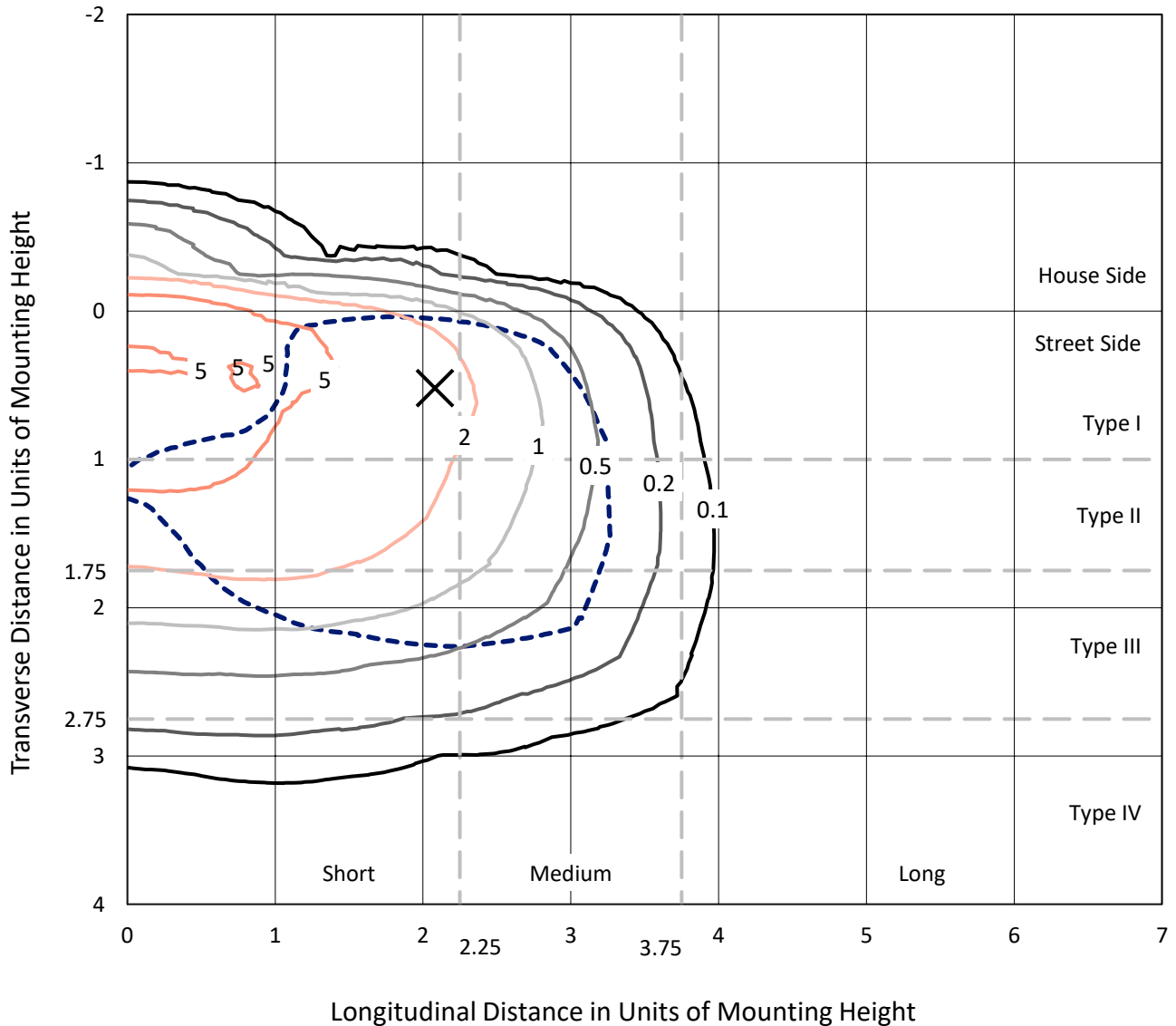
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

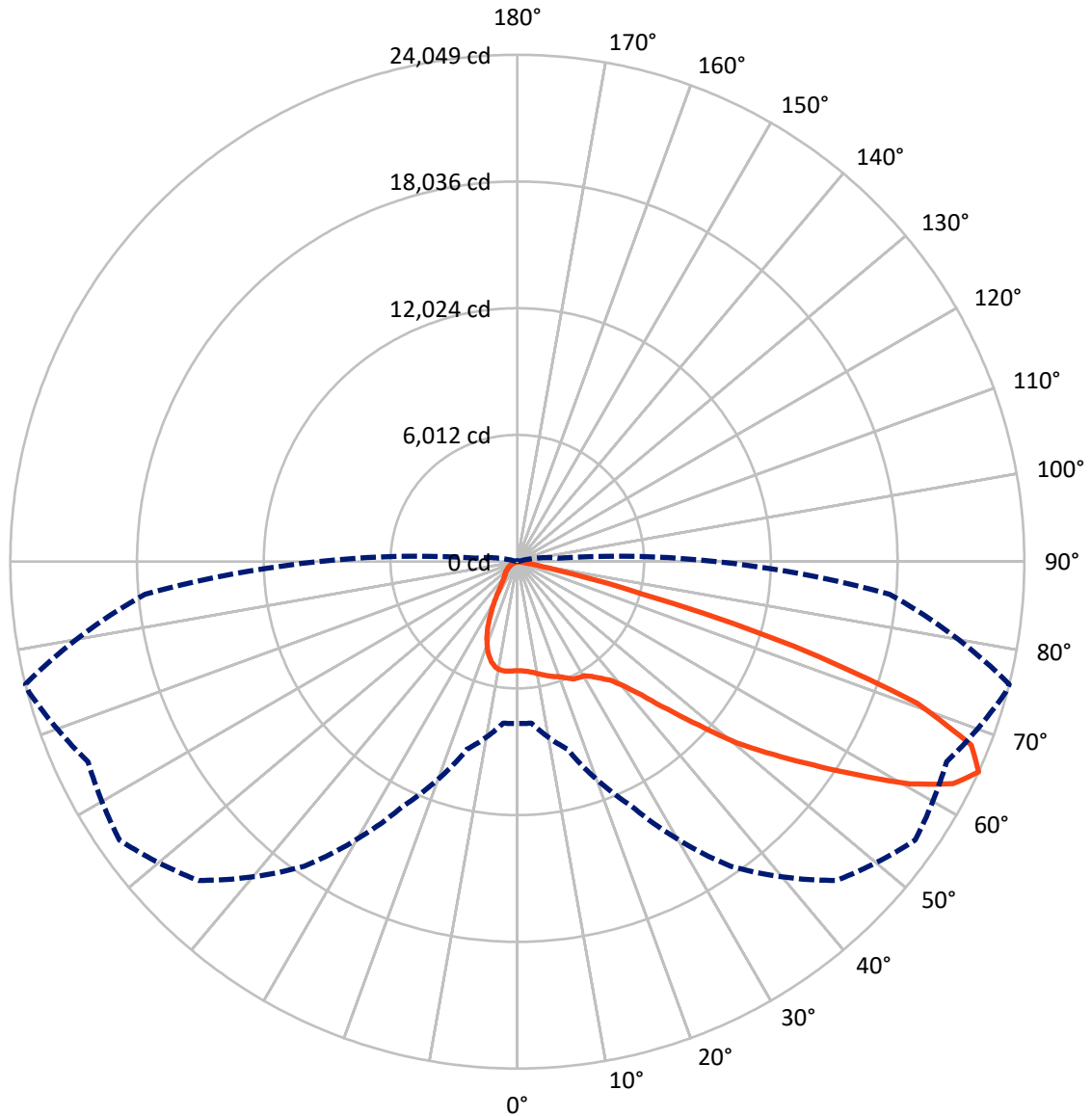
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2040.9	0.0	2040.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	26219.1	0.0	26219.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	28260.0	0.0	28260.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.9	1.5
10°-20°	948.2	3.4
20°-30°	1527.9	5.4
30°-40°	2656.7	9.4
40°-50°	4390.1	15.5
50°-60°	6781.8	24.0
60°-70°	8281.5	29.3
70°-80°	3143.0	11.1
80°-90°	104.9	0.4
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°	28260.0	100.0
0°-180°	28260.0	100.0

Coefficient of Utilization



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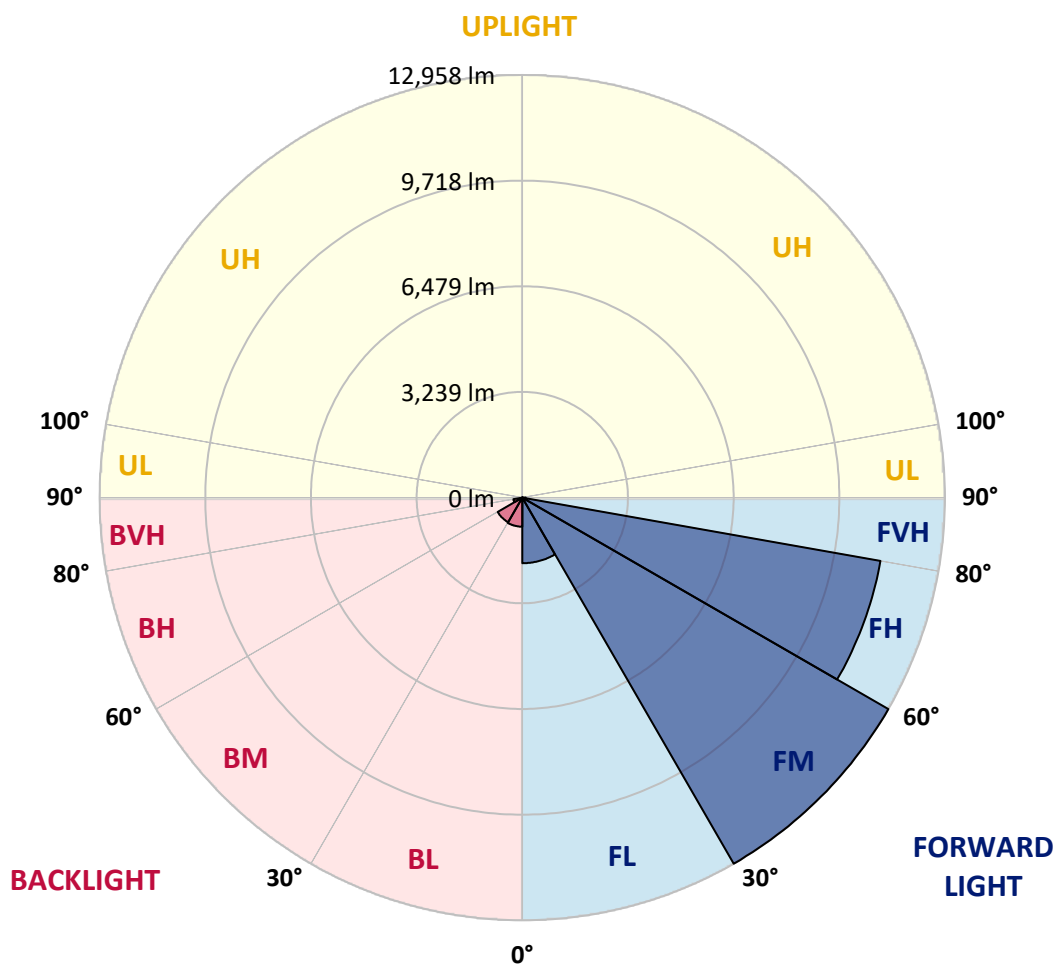
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2010.4	7.1			
FM (30°-60°)	12957.6	45.9			
FH (60°-80°)	11147.6	39.4			G4/12000
FVH (80°-90°)	103.5	0.4			G2/225
BL (0°-30°)	891.6	3.2	B2/1000		
BM (30°-60°)	870.9	3.1	B1/1000		
BH (60°-80°)	276.9	1.0	B1/500		G1/500
BVH (80°-90°)	1.4	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5169.7	5169.7	5169.7	5169.7	5169.7	5169.7	5169.7	5169.7	5169.7	5169.7	5169.7
2.5°	4940.2	4942.2	4954.2	4984.1	5030.0	5067.9	5099.8	5151.7	5187.6	5191.6	5203.6
5°	4599.0	4575.1	4599.0	4676.8	4746.7	4852.4	4982.1	5111.8	5227.5	5235.5	5291.4
7.5°	4215.9	4235.9	4273.8	4353.6	4485.3	4646.9	4834.5	5065.9	5285.4	5305.3	5415.1
10°	3826.9	3870.8	3932.6	4054.3	4237.9	4447.4	4702.8	5034.0	5377.2	5405.1	5594.6
12.5°	3467.7	3487.7	3563.5	3727.1	3954.6	4249.9	4603.0	5016.0	5478.9	5512.8	5786.2
15°	3192.4	3218.3	3284.2	3431.8	3685.2	4064.3	4521.2	5010.0	5578.7	5626.6	5977.7
17.5°	3140.5	3156.5	3184.4	3284.2	3505.6	3916.6	4447.4	5008.0	5674.5	5732.3	6155.3
20°	3354.0	3340.0	3312.1	3302.1	3423.8	3802.9	4393.5	5024.0	5766.2	5832.1	6342.9
22.5°	3888.7	3906.7	3743.1	3549.5	3509.6	3785.0	4385.5	5099.8	5911.9	5989.7	6552.4
25°	5024.0	4886.3	4630.9	4168.0	3818.9	3894.7	4475.3	5279.4	6081.5	6167.3	6741.9
27.5°	6279.0	6237.1	5840.1	5077.9	4427.4	4126.1	4634.9	5417.1	6137.3	6225.1	6849.6
30°	7512.1	7561.9	7107.0	6265.0	5311.3	4555.1	4784.6	5468.9	6187.2	6279.0	6987.3
32.5°	8655.3	8715.2	8316.1	7482.1	6352.8	5297.4	5042.0	5670.5	6396.7	6490.5	7216.8
35°	9555.2	9563.2	9261.9	8597.5	7490.1	6199.2	5598.6	6023.6	6680.0	6789.8	7460.2
37.5°	10381.2	10369.2	10016.1	9443.5	8437.9	7095.1	6299.0	6430.6	7003.3	7117.0	7811.3
40°	10993.7	11001.7	10888.0	10349.3	9321.7	7923.1	6853.6	6811.7	7546.0	7723.6	8322.1
42.5°	11402.8	11476.6	11532.5	11259.1	10433.1	8942.6	7705.6	7627.8	8487.7	8635.4	9044.4
45°	11734.0	11865.7	12145.0	12131.0	11500.5	10193.7	8874.8	8715.2	9822.5	9980.2	9964.2
47.5°	11975.4	12109.1	12572.0	12851.3	12504.1	11406.8	10345.3	10207.6	11416.7	11588.3	10979.8
50°	12099.1	12258.7	12849.3	13390.0	13288.3	12576.0	12021.3	12029.3	13342.1	13507.7	12157.0
52.5°	11809.8	12017.3	12997.0	13970.6	14168.2	13695.3	13591.5	13854.9	15056.0	15197.7	13220.4
55°	10886.0	11147.4	12795.4	14465.5	15187.7	15016.1	15375.3	15776.3	16929.6	17021.4	14311.8
57.5°	10301.4	10578.7	12200.9	14886.5	16412.8	16676.2	17244.8	17538.1	18863.0	19096.4	15564.8
60°	9808.6	10026.1	11712.0	14976.2	17657.8	18707.3	19260.0	19563.3	21249.3	21400.9	16943.5
62.5°	8988.5	9237.9	10886.0	14349.7	18284.3	20333.4	21478.7	21343.0	23094.9	23200.6	17789.5
65°	7669.7	7691.6	9210.0	12775.5	17637.9	21388.9	23037.0	22468.4	23976.7	24048.6	17723.7
67.5°	5724.3	5935.8	7085.1	10042.0	14898.4	20487.1	23541.8	22498.3	23420.1	23220.6	16317.0
70°	3687.2	3848.8	4802.5	6963.4	10742.3	17097.2	21867.8	20956.0	20554.9	20112.0	13356.1
72.5°	1701.9	1909.4	2853.2	3978.5	6370.8	12178.9	17751.6	17025.3	14794.7	13701.3	8489.7
75°	742.2	794.1	1408.6	2099.0	2986.9	6440.6	11704.1	10568.8	6682.0	6103.4	3397.9
77.5°	452.9	486.8	738.2	1125.3	1173.2	2454.1	6304.9	4611.0	2065.1	1821.7	921.8
80°	307.3	345.2	536.7	588.6	401.0	684.4	2366.3	1231.1	417.0	399.0	197.5
82.5°	149.6	189.5	397.1	329.2	173.6	219.5	688.4	263.4	121.7	113.7	69.8
85°	21.9	37.9	223.5	215.5	77.8	51.9	121.7	65.8	41.9	39.9	31.9
87.5°	0.0	0.0	75.8	33.9	8.0	8.0	14.0	14.0	16.0	14.0	16.0
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°	5169.7	5169.7	5169.7	5169.7	5169.7	5169.7	5169.7	5169.7	5169.7	5169.7	5169.7
2.5°	5209.6	5219.5	5181.6	5127.8	5069.9	5012.0	4930.2	4856.4	4812.5	4838.4	4774.6
5°	5303.3	5295.4	5195.6	5032.0	4814.5	4553.1	4293.7	4072.3	4000.4	3892.7	3880.7
7.5°	5433.0	5411.1	5199.6	4824.5	4333.7	3842.8	3364.0	3046.7	2865.2	2711.5	2715.5
10°	5614.6	5550.7	5153.7	4459.4	3651.3	2911.0	2300.5	1881.5	1699.9	1642.1	1596.2
12.5°	5802.1	5678.4	5026.0	3966.5	2843.2	1989.3	1398.7	1143.3	1031.5	995.6	991.6
15°	5969.7	5774.2	4802.5	3373.9	2067.1	1271.0	953.7	869.9	856.0	858.0	856.0
17.5°	6135.4	5850.0	4493.3	2745.4	1404.6	911.8	820.0	800.1	806.1	814.1	812.1
20°	6273.0	5866.0	4098.2	2095.0	993.6	800.1	770.2	766.2	772.2	778.1	778.1
22.5°	6422.7	5878.0	3629.3	1450.5	812.1	744.2	728.3	728.3	736.2	744.2	746.2
25°	6534.4	5812.1	3068.7	1041.5	716.3	690.4	682.4	684.4	692.3	696.3	694.3
27.5°	6552.4	5626.6	2474.1	798.1	650.4	624.5	616.5	624.5	614.5	620.5	616.5
30°	6568.3	5391.1	1871.5	672.4	590.6	550.7	538.7	526.7	518.8	508.8	506.8
32.5°	6618.2	5113.8	1366.7	604.6	534.7	490.8	462.9	429.0	403.0	395.1	393.1
35°	6640.1	4780.6	1003.6	550.7	484.8	437.0	387.1	339.2	301.3	287.3	297.3
37.5°	6723.9	4457.4	778.1	510.8	440.9	381.1	317.2	257.4	221.5	213.5	217.5
40°	6895.5	4106.2	652.4	476.9	403.0	329.2	251.4	193.5	169.6	161.6	159.6
42.5°	7170.9	3757.0	580.6	444.9	365.1	277.3	197.5	151.6	131.7	125.7	125.7
45°	7506.1	3421.8	530.7	411.0	325.2	223.5	155.6	121.7	109.7	105.7	105.7
47.5°	7947.0	3128.5	488.8	377.1	281.3	177.6	125.7	105.7	97.8	99.8	101.8
50°	8394.0	2911.0	442.9	339.2	231.4	145.7	107.7	93.8	91.8	93.8	93.8
52.5°	8731.2	2783.4	381.1	287.3	181.6	121.7	95.8	87.8	85.8	81.8	81.8
55°	9186.1	2755.4	303.3	233.4	143.7	101.8	85.8	79.8	73.8	69.8	67.8
57.5°	9770.7	2787.3	233.4	181.6	111.7	83.8	75.8	65.8	57.9	49.9	49.9
60°	10133.8	2715.5	181.6	139.7	81.8	67.8	57.9	47.9	37.9	31.9	29.9
62.5°	10018.1	2412.2	143.7	103.8	57.9	49.9	37.9	31.9	21.9	16.0	14.0
65°	9421.5	1947.4	115.7	71.8	41.9	29.9	20.0	20.0	10.0	2.0	0.0
67.5°	8246.3	1442.6	91.8	47.9	23.9	14.0	10.0	6.0	0.0	0.0	0.0
70°	6712.0	1041.5	71.8	29.9	14.0	10.0	4.0	2.0	0.0	0.0	0.0
72.5°	4261.8	596.6	55.9	18.0	10.0	4.0	0.0	0.0	0.0	0.0	0.0
75°	1648.1	233.4	37.9	12.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	466.9	109.7	21.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	121.7	47.9	12.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	57.9	20.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.9	8.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.0	2.0	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)