

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: P192661

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-AFL-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11624.1 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 124
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: 25 FT



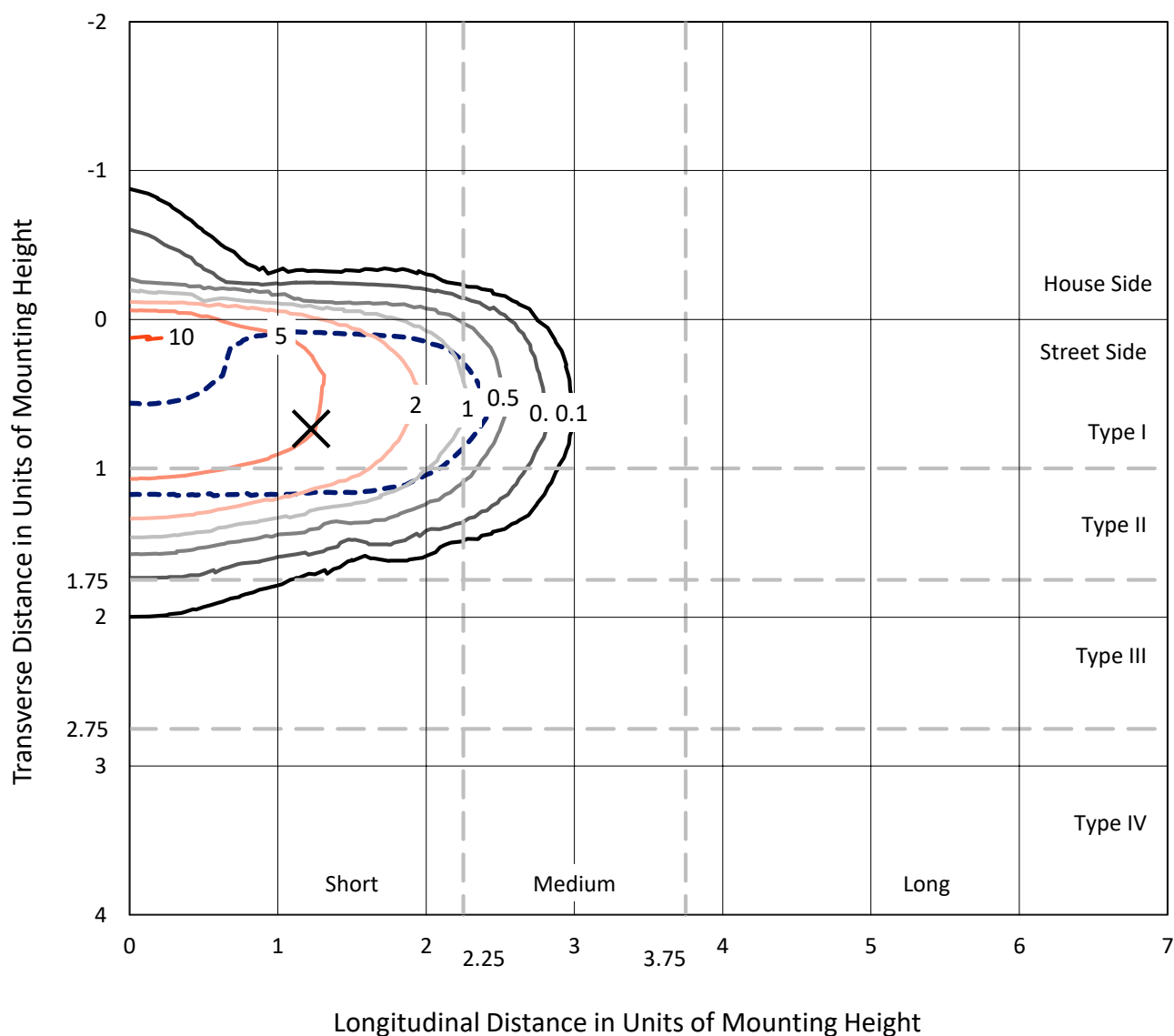
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

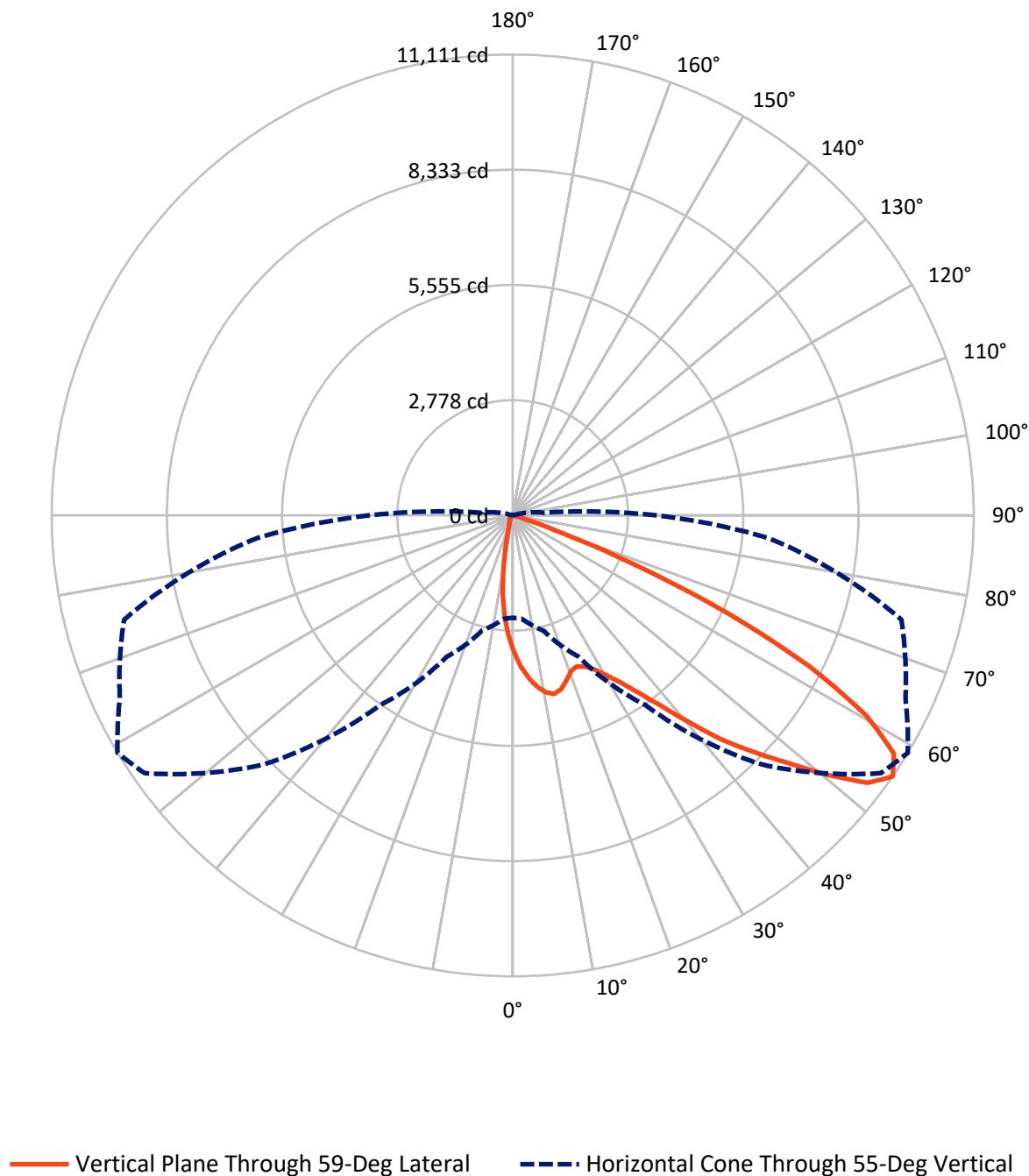


Based on 20 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	649.3	0.0	649.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	10974.8	0.0	10974.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	11624.1	0.0	11624.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.1	2.4
10°-20°	656.2	5.6
20°-30°	1116.6	9.6
30°-40°	1920.4	16.5
40°-50°	2964.8	25.5
50°-60°	2980.6	25.6
60°-70°	1528.5	13.1
70°-80°	165.6	1.4
80°-90°	17.3	0.1
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°	11624.1	100.0
0°-180°	11624.1	100.0

Coefficient of Utilization



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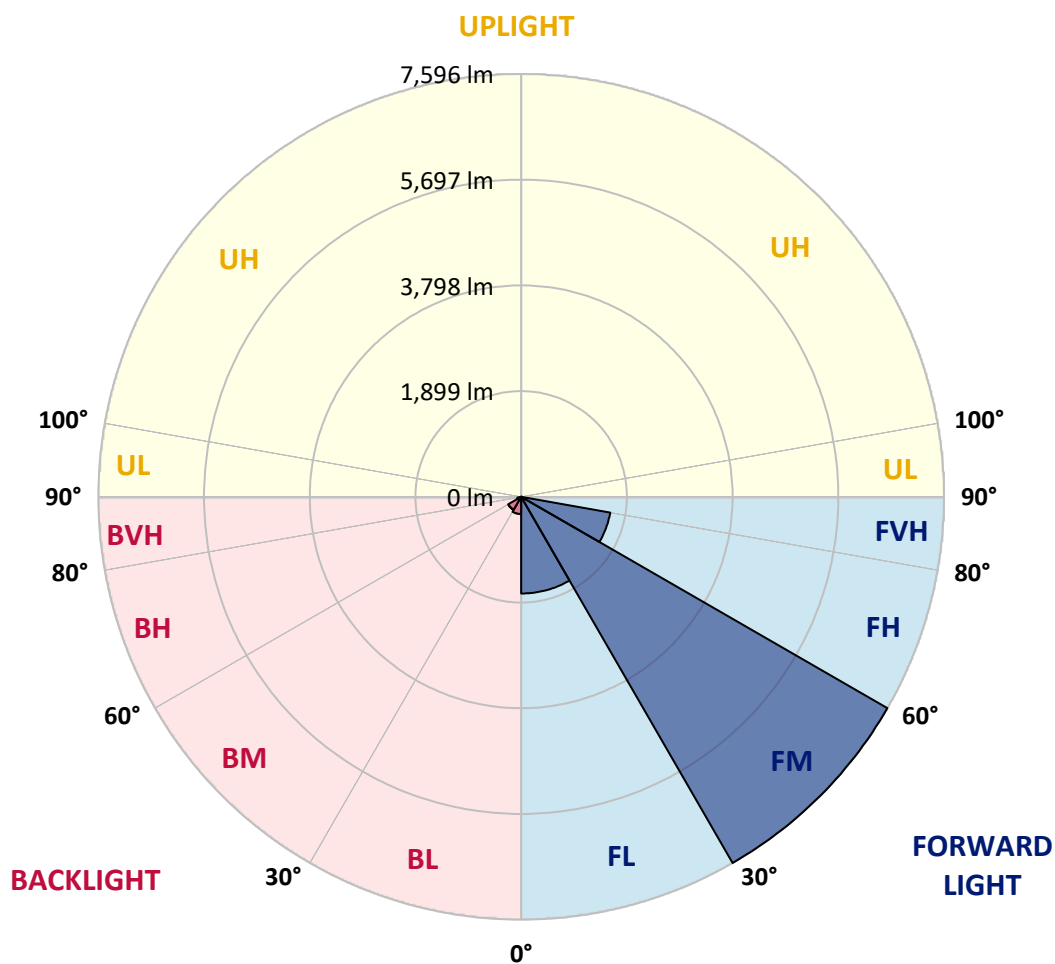
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1737.0	14.9			
FM	(30°-60°)	7596.3	65.3			
FH	(60°-80°)	1624.6	14.0			G1/1800
FVH	(80°-90°)	17.0	0.1			G1/100
BL	(0°-30°)	309.9	2.7	B1/500		
BM	(30°-60°)	269.5	2.3	B1/1000		
BH	(60°-80°)	69.6	0.6	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1
2.5°	3871.7	3830.5	3818.2	3810.0	3772.1	3724.8	3660.4	3630.2	3568.5	3469.0	3346.9
5°	4226.3	4218.8	4191.4	4176.2	4135.8	4068.6	3965.7	3916.3	3818.2	3650.8	3432.0
7.5°	4071.3	4118.6	4156.3	4219.5	4299.1	4296.3	4209.9	4158.4	4048.7	3827.8	3526.7
10°	3472.5	3510.8	3572.6	3716.0	4008.1	4266.1	4367.6	4330.6	4242.7	3990.3	3617.9
12.5°	3355.2	3351.0	3362.0	3403.9	3556.8	3924.5	4340.9	4415.7	4397.8	4139.2	3704.3
15°	3417.5	3412.7	3411.4	3425.9	3462.9	3617.9	4140.0	4354.6	4492.5	4277.1	3777.7
17.5°	3592.5	3571.9	3561.0	3549.3	3538.3	3576.7	3898.5	4183.9	4507.0	4397.8	3838.8
20°	3892.3	3858.0	3817.5	3751.6	3689.9	3670.7	3796.9	4008.1	4455.5	4489.8	3878.6
22.5°	4268.9	4224.9	4155.0	4035.0	3909.4	3836.7	3847.0	3952.7	4378.7	4589.9	3897.1
25°	4692.1	4635.9	4542.6	4375.9	4191.4	4062.4	3995.2	4032.2	4343.6	4707.2	3918.4
27.5°	5145.6	5083.2	4961.0	4733.9	4524.8	4350.4	4213.2	4208.5	4403.3	4860.8	3952.7
30°	5594.8	5585.3	5426.2	5186.0	4908.9	4696.9	4499.4	4473.9	4570.0	5073.6	4020.5
32.5°	6194.5	6122.5	5927.6	5680.6	5361.0	5106.4	4872.5	4813.5	4825.9	5321.2	4125.5
35°	6950.4	6871.6	6597.1	6256.1	5898.8	5598.3	5339.7	5259.4	5229.2	5726.6	4302.5
37.5°	7438.8	7437.4	7265.2	6918.2	6534.7	6203.3	5922.1	5828.1	5767.0	6216.5	4576.9
40°	7451.8	7484.0	7506.7	7503.3	7230.2	6925.0	6675.3	6559.4	6417.4	6870.8	4931.5
42.5°	7051.9	7134.9	7334.6	7673.4	7835.3	7713.9	7503.3	7389.4	7178.2	7571.2	5363.7
45°	6511.3	6569.0	6918.2	7542.3	8163.2	8495.9	8335.4	8131.6	7853.1	8301.7	5751.3
47.5°	6269.2	6279.4	6505.2	7190.5	8187.9	9136.6	9234.0	8902.7	8466.4	8890.3	6054.5
50°	5545.5	5564.0	5875.4	6580.6	7898.5	9439.1	10136.7	9822.6	9135.2	9343.8	6165.0
52.5°	4179.7	4205.7	4600.9	5578.4	7102.6	9310.2	10783.1	10706.9	9867.9	9565.3	6171.1
55°	2466.1	2500.4	2877.7	3755.0	5586.7	8489.8	10831.0	11110.9	10446.2	9696.3	6161.4
57.5°	1151.8	1175.7	1391.9	1934.4	3474.6	6709.6	10108.0	10833.7	10765.1	9765.7	6229.4
60°	611.9	618.7	670.9	837.6	1570.2	4254.4	8696.9	9782.8	10474.2	9861.7	6312.5
62.5°	467.8	470.0	467.2	487.1	659.9	1888.5	6573.8	8042.5	9303.3	9789.6	6220.4
65°	405.5	408.8	389.6	384.8	423.3	673.6	3905.3	5732.8	7310.5	8817.7	5594.2
67.5°	363.7	364.9	341.7	321.8	328.6	364.3	1540.7	3138.4	4838.9	6463.3	4054.8
70°	334.8	333.3	308.0	276.4	267.5	249.0	489.8	1150.4	2312.5	3277.7	1885.9
72.5°	296.3	297.0	284.7	243.5	222.3	174.3	227.0	335.4	690.1	893.2	441.7
75°	262.8	259.3	244.2	218.2	183.1	114.6	112.5	149.5	212.6	211.3	95.4
77.5°	190.0	186.7	191.4	179.0	140.6	74.1	56.3	72.0	86.5	83.7	26.8
80°	139.3	137.2	123.5	148.8	124.1	50.8	35.0	38.5	44.6	37.7	8.2
82.5°	95.4	94.6	87.1	82.3	70.7	30.9	22.0	24.0	28.9	21.3	4.2
85°	15.1	17.2	63.2	50.0	41.8	13.7	15.1	16.5	19.2	11.7	1.4
87.5°	0.0	0.0	29.5	26.1	8.2	5.5	9.0	9.7	9.7	6.2	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1
2.5°	3284.5	3215.9	3089.0	2957.9	2836.6	2691.8	2592.2	2517.6	2431.1	2407.8	2458.6
5°	3307.2	3177.5	2904.4	2607.5	2328.2	2018.9	1782.2	1594.8	1425.5	1367.8	1420.0
7.5°	3342.8	3150.1	2704.8	2215.8	1730.0	1247.0	916.4	699.0	560.5	519.3	541.3
10°	3378.6	3110.3	2473.6	1752.0	1088.0	607.1	395.1	315.5	286.0	279.9	283.3
12.5°	3408.1	3056.7	2191.7	1245.8	581.7	325.1	258.6	245.7	241.5	241.5	242.9
15°	3425.9	2975.7	1857.6	792.3	334.8	245.7	225.7	221.6	221.6	222.3	223.7
17.5°	3423.7	2872.9	1492.1	479.5	250.4	217.4	205.9	202.3	201.7	203.0	203.8
20°	3398.4	2738.5	1125.1	316.2	218.2	198.2	186.7	180.4	179.7	181.2	182.5
22.5°	3350.3	2572.4	804.7	243.5	196.8	179.7	165.3	159.8	159.8	161.1	162.6
25°	3292.0	2369.4	550.1	206.5	177.6	159.8	146.1	141.3	142.7	146.1	146.9
27.5°	3219.4	2140.9	373.8	177.0	154.4	140.0	129.7	126.2	129.7	134.5	135.8
30°	3156.9	1903.0	266.8	153.0	131.0	120.7	114.6	114.6	119.3	128.3	130.3
32.5°	3108.9	1672.4	205.9	135.2	113.8	105.0	101.5	105.0	112.5	121.4	123.5
35°	3102.8	1482.4	174.3	120.7	101.5	92.7	91.2	97.5	105.0	111.8	113.2
37.5°	3150.1	1306.8	157.2	109.0	90.5	82.3	81.0	88.5	96.0	104.3	106.3
40°	3239.9	1169.0	144.8	98.2	81.6	72.7	69.9	75.5	85.8	96.7	99.4
42.5°	3356.6	1055.0	131.0	87.1	72.7	60.4	57.0	63.2	74.1	85.8	89.1
45°	3467.7	956.9	116.0	74.8	61.0	46.7	45.3	53.5	59.0	70.7	73.4
47.5°	3528.7	870.5	102.9	61.0	47.3	37.7	37.7	39.8	45.3	59.0	61.7
50°	3508.1	801.2	89.1	45.3	32.9	28.9	28.9	28.1	36.4	47.3	49.3
52.5°	3466.9	761.4	76.8	35.0	22.6	20.5	18.6	20.5	25.3	30.1	30.9
55°	3460.8	754.6	64.5	28.1	15.8	13.7	10.3	10.3	10.3	9.7	8.2
57.5°	3508.8	765.6	54.2	22.6	11.7	9.0	5.5	0.0	0.0	0.0	0.0
60°	3558.2	777.3	46.7	15.8	8.2	4.8	0.6	0.0	0.0	0.0	0.0
62.5°	3475.9	751.1	39.2	9.7	6.2	2.0	0.0	0.0	0.0	0.0	0.0
65°	3053.4	639.3	30.9	6.9	4.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2171.8	428.1	20.5	4.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	991.2	179.0	13.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	212.0	55.6	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	43.2	40.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.7	63.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	8.2	46.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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)