

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: P300614

Luminaire Tested: **GLNA-AF-03-LED-E1-AFL-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300614
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: GLNA-AF-03-LED-E1-AFL-8030-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive
Frontline WITH HOUSESIDE SHIELD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11028.8 lumens
Efficiency: N/A
Efficacy: 66.4 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): 166
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



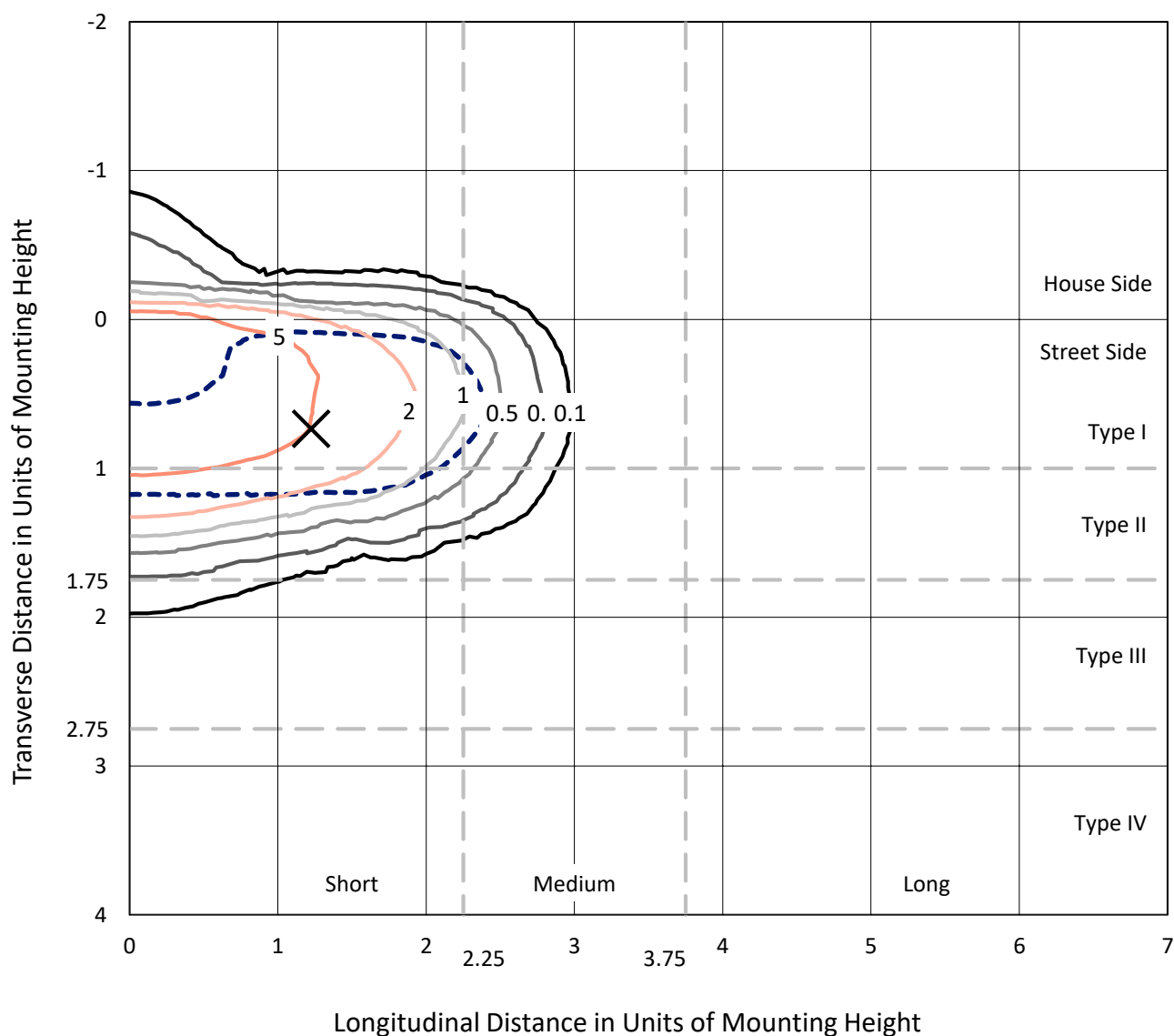
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

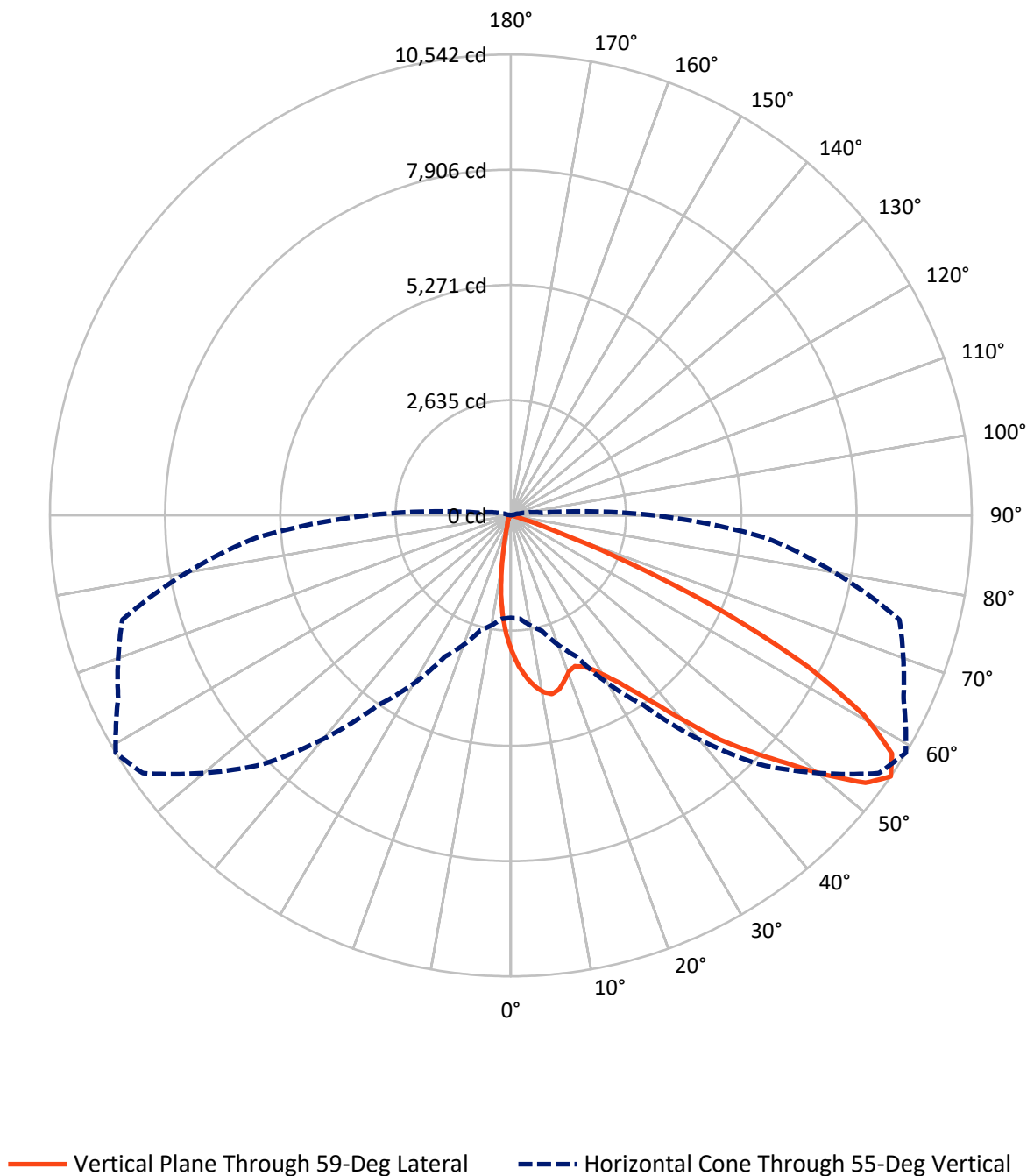


Based on 20 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	616.0	0.0	616.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	10412.8	0.0	10412.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	11028.8	0.0	11028.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.0	2.4
10°-20°	622.6	5.6
20°-30°	1059.4	9.6
30°-40°	1822.0	16.5
40°-50°	2813.0	25.5
50°-60°	2827.9	25.6
60°-70°	1450.2	13.1
70°-80°	157.2	1.4
80°-90°	16.4	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°	11028.8	100.0
0°-180°	11028.8	100.0

Coefficient of Utilization



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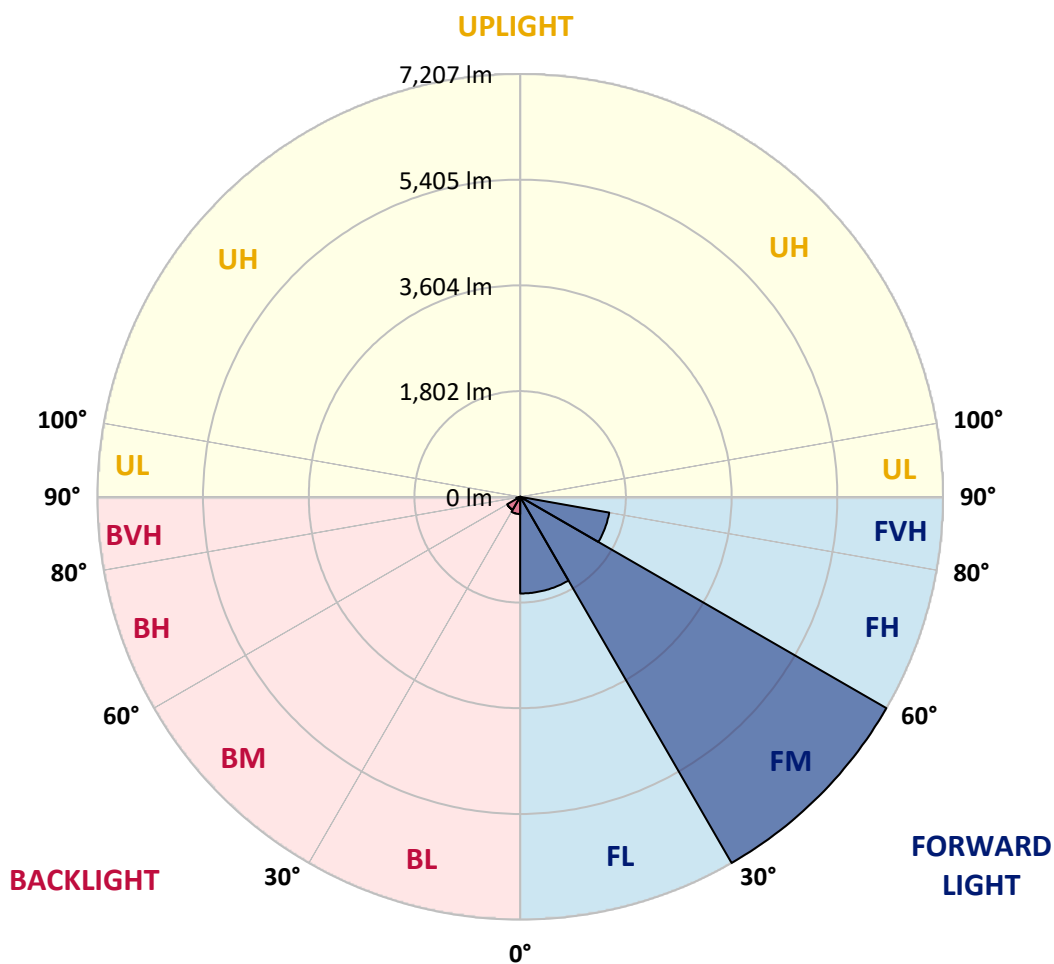
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1648.1	14.9			
FM	(30°-60°)	7207.3	65.3			
FH	(60°-80°)	1541.4	14.0			G1/1800
FVH	(80°-90°)	16.1	0.1			G1/100
BL	(0°-30°)	294.0	2.7	B1/500		
BM	(30°-60°)	255.7	2.3	B1/1000		
BH	(60°-80°)	66.0	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	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°	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6
2.5°	3673.4	3634.4	3622.6	3614.8	3579.0	3534.1	3473.0	3444.3	3385.7	3291.4	3175.5
5°	4009.9	4002.7	3976.7	3962.4	3924.0	3860.2	3762.6	3715.7	3622.6	3463.8	3256.2
7.5°	3862.8	3907.7	3943.5	4003.4	4078.9	4076.3	3994.3	3945.5	3841.3	3631.8	3346.0
10°	3294.6	3331.1	3389.6	3525.7	3802.9	4047.7	4144.0	4108.8	4025.5	3786.0	3432.6
12.5°	3183.3	3179.4	3189.8	3229.5	3374.7	3723.5	4118.6	4189.5	4172.6	3927.2	3514.6
15°	3242.5	3238.0	3236.7	3250.4	3285.5	3432.6	3927.9	4131.6	4262.4	4058.1	3584.2
17.5°	3408.5	3389.0	3378.6	3367.5	3357.1	3393.5	3698.8	3969.6	4276.1	4172.6	3642.2
20°	3692.9	3660.4	3622.0	3559.5	3500.9	3482.7	3602.5	3802.9	4227.3	4259.8	3679.9
22.5°	4050.3	4008.6	3942.2	3828.3	3709.2	3640.2	3650.0	3750.2	4154.4	4354.9	3697.5
25°	4451.8	4398.5	4309.9	4151.8	3976.7	3854.4	3790.6	3825.7	4121.2	4466.2	3717.7
27.5°	4882.0	4822.8	4707.0	4491.5	4293.0	4127.7	3997.5	3993.0	4177.8	4611.9	3750.2
30°	5308.4	5299.2	5148.2	4920.4	4657.5	4456.4	4268.9	4244.9	4336.0	4813.7	3814.6
32.5°	5877.2	5808.9	5624.0	5389.7	5086.4	4844.9	4623.0	4567.0	4578.7	5048.7	3914.2
35°	6594.4	6519.6	6259.3	5935.8	5596.7	5311.6	5066.2	4990.1	4961.5	5433.3	4082.1
37.5°	7057.8	7056.5	6893.2	6563.9	6200.0	5885.7	5618.8	5529.6	5471.7	5898.0	4342.5
40°	7070.2	7100.8	7122.3	7119.0	6860.0	6570.4	6333.4	6223.5	6088.7	6518.9	4679.0
42.5°	6690.8	6769.5	6958.9	7280.4	7434.0	7318.8	7119.0	7011.0	6810.5	7183.5	5089.0
45°	6177.9	6232.6	6563.9	7156.1	7745.1	8060.8	7908.5	7715.2	7451.0	7876.6	5456.8
47.5°	5948.1	5957.9	6172.0	6822.2	7768.6	8668.7	8761.1	8446.8	8032.8	8435.1	5744.4
50°	5261.5	5279.1	5574.6	6243.6	7493.9	8955.7	9617.7	9319.6	8667.4	8865.3	5849.2
52.5°	3965.6	3990.4	4365.3	5292.7	6738.9	8833.4	10230.8	10158.5	9362.5	9075.5	5855.1
55°	2339.8	2372.4	2730.3	3562.8	5300.5	8055.0	10276.3	10541.9	9911.2	9199.8	5846.0
57.5°	1092.8	1115.6	1320.6	1835.4	3296.6	6366.0	9590.3	10278.9	10213.8	9265.5	5910.4
60°	580.6	587.1	636.5	794.7	1489.8	4036.6	8251.5	9281.8	9937.9	9356.7	5989.1
62.5°	443.9	445.8	443.2	462.1	626.1	1791.8	6237.1	7630.6	8826.9	9288.3	5901.9
65°	384.7	387.9	369.7	365.1	401.6	639.1	3705.3	5439.2	6936.1	8366.1	5307.7
67.5°	345.0	346.3	324.1	305.2	311.8	345.6	1461.8	2977.7	4591.1	6132.3	3847.2
70°	317.6	316.3	292.2	262.3	253.8	236.3	464.7	1091.5	2194.0	3109.8	1789.2
72.5°	281.2	281.8	270.1	231.1	210.9	165.3	215.4	318.3	654.8	847.4	419.1
75°	249.3	246.0	231.7	207.0	173.8	108.7	106.7	141.9	201.8	200.5	90.5
77.5°	180.3	177.0	181.6	169.9	133.4	70.3	53.4	68.3	82.0	79.4	25.4
80°	132.1	130.2	117.2	141.2	117.8	48.2	33.2	36.4	42.3	35.8	7.8
82.5°	90.5	89.8	82.7	78.1	67.0	29.3	20.8	22.8	27.3	20.2	3.9
85°	14.3	16.3	59.9	47.5	39.7	13.0	14.3	15.6	18.2	11.1	1.3
87.5°	0.0	0.0	28.0	24.7	7.8	5.2	8.5	9.1	9.1	5.9	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°	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6	3104.6
2.5°	3116.3	3051.2	2930.8	2806.5	2691.3	2553.9	2459.6	2388.6	2306.6	2284.5	2332.7
5°	3137.8	3014.8	2755.7	2473.9	2209.0	1915.5	1690.9	1513.2	1352.5	1297.8	1347.3
7.5°	3171.6	2988.7	2566.3	2102.3	1641.5	1183.3	869.5	663.2	531.7	492.7	513.5
10°	3205.5	2951.0	2347.0	1662.3	1032.3	576.0	374.9	299.4	271.4	265.5	268.8
12.5°	3233.4	2900.2	2079.5	1181.9	551.9	308.5	245.4	233.0	229.1	229.1	230.4
15°	3250.4	2823.4	1762.5	751.7	317.6	233.0	214.1	210.2	210.2	210.9	212.2
17.5°	3248.4	2725.8	1415.6	454.9	237.6	206.3	195.3	192.0	191.4	192.7	193.3
20°	3224.3	2598.2	1067.4	300.0	207.0	188.1	177.0	171.2	170.5	171.8	173.1
22.5°	3178.8	2440.7	763.5	231.1	186.8	170.5	156.9	151.6	151.6	153.0	154.3
25°	3123.4	2248.0	522.0	195.9	168.6	151.6	138.6	134.1	135.4	138.6	139.3
27.5°	3054.5	2031.3	354.7	167.9	146.4	132.8	123.0	119.8	123.0	127.6	128.9
30°	2995.2	1805.5	253.2	145.1	124.3	114.6	108.7	108.7	113.2	121.7	123.7
32.5°	2949.7	1586.8	195.3	128.2	108.0	99.6	96.3	99.6	106.7	115.2	117.2
35°	2943.8	1406.5	165.3	114.6	96.3	87.9	86.6	92.4	99.6	106.1	107.4
37.5°	2988.7	1239.9	149.0	103.5	85.9	78.1	76.8	84.0	91.1	98.9	100.9
40°	3074.0	1109.1	137.3	93.1	77.5	69.0	66.4	71.6	81.4	91.8	94.4
42.5°	3184.6	1001.0	124.3	82.7	69.0	57.3	54.0	59.9	70.3	81.4	84.6
45°	3290.1	907.9	110.0	70.9	57.9	44.3	43.0	50.8	56.0	67.0	69.6
47.5°	3348.0	825.9	97.6	57.9	44.9	35.8	35.8	37.7	43.0	56.0	58.6
50°	3328.5	760.2	84.6	43.0	31.2	27.3	27.3	26.7	34.5	44.9	46.9
52.5°	3289.4	722.4	72.9	33.2	21.5	19.5	17.6	19.5	24.1	28.6	29.3
55°	3283.6	715.9	61.2	26.7	15.0	13.0	9.8	9.8	9.8	9.1	7.8
57.5°	3329.1	726.4	51.4	21.5	11.1	8.5	5.2	0.0	0.0	0.0	0.0
60°	3376.0	737.4	44.3	15.0	7.8	4.6	0.7	0.0	0.0	0.0	0.0
62.5°	3297.9	712.7	37.1	9.1	5.9	2.0	0.0	0.0	0.0	0.0	0.0
65°	2896.9	606.6	29.3	6.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2060.6	406.1	19.5	3.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	940.5	169.9	12.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	201.1	52.7	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	41.0	38.4	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.0	60.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.8	43.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.3	6.5	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)