

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: P193480

Luminaire Tested: **GLEON-AF-02-LED-E1-AFL-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193480
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-02-LED-E1-AFL-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA 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: 8925 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 129
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

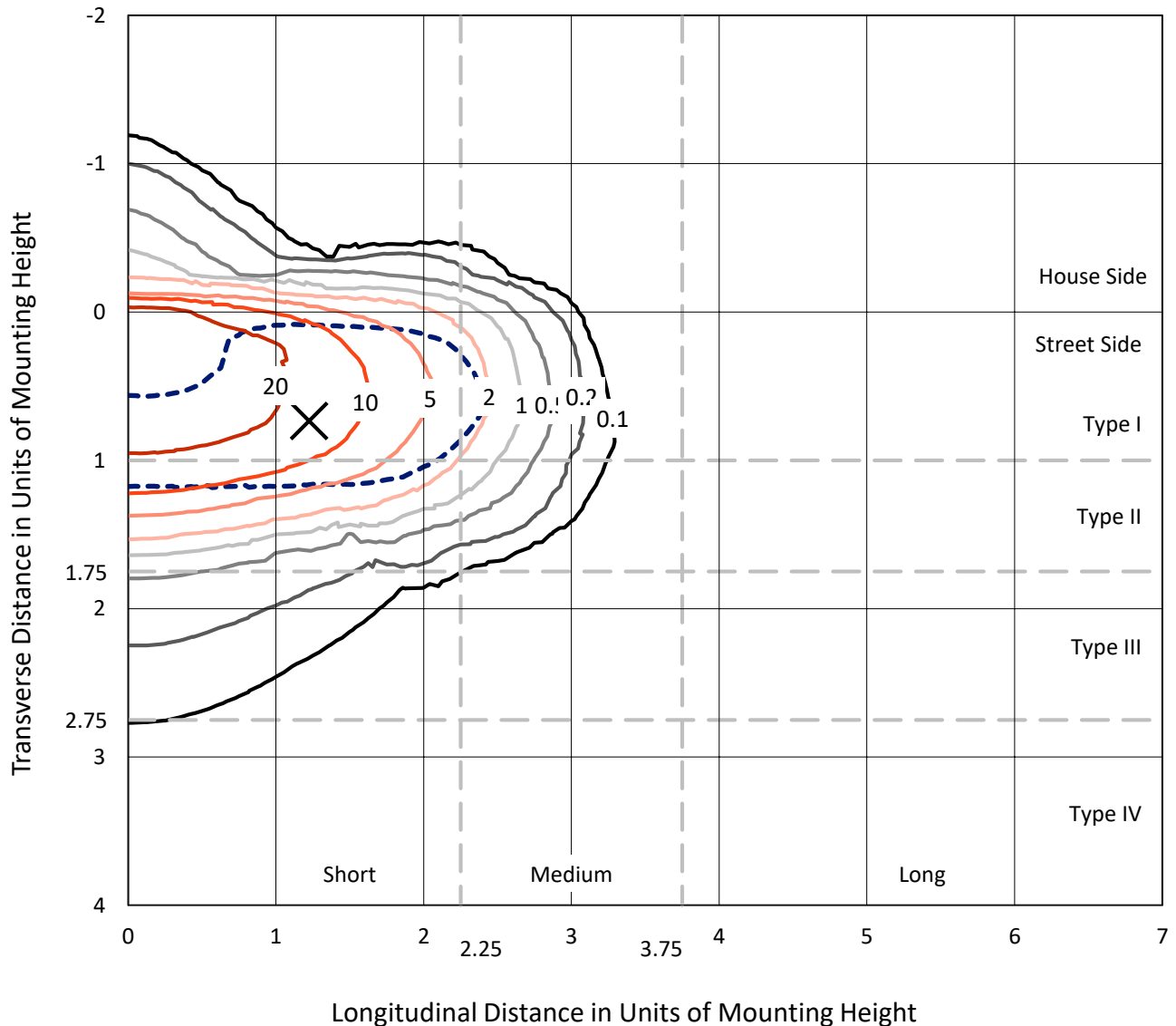


REPORT NUMBER: P193480

CATALOG NUMBER: GLEON-AF-02-LED-E1-AFL-8030-1200-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

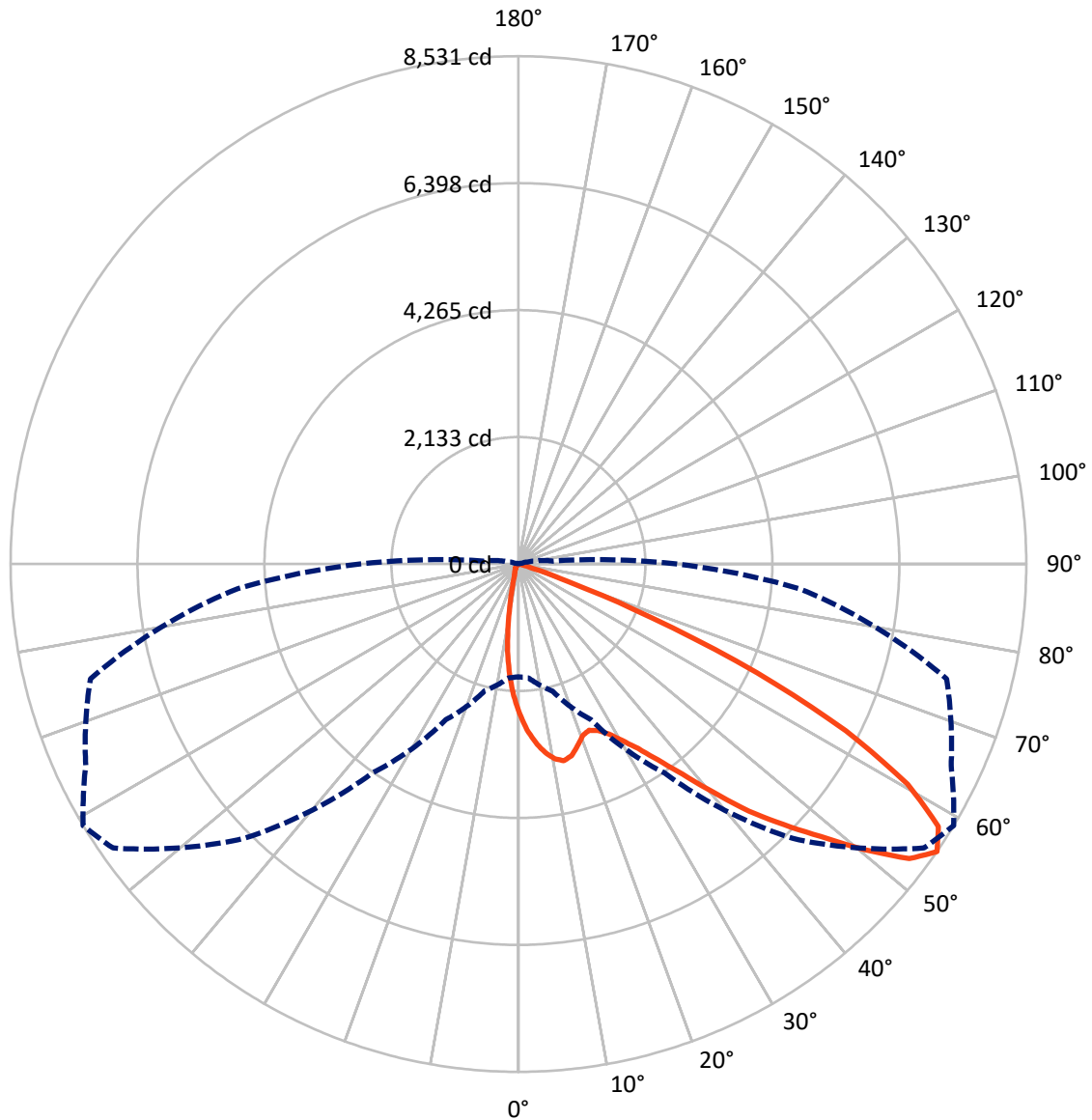


Based on 10 foot mounting height. Maximum calculated value = 31.3 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P193480

CATALOG NUMBER: GLEON-AF-02-LED-E1-AFL-8030-1200-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P193480

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	498.5	0.0	498.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	8426.5	0.0	8426.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	8925.0	0.0	8925.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.4	2.4
10°-20°	503.8	5.6
20°-30°	857.3	9.6
30°-40°	1474.5	16.5
40°-50°	2276.4	25.5
50°-60°	2288.5	25.6
60°-70°	1173.6	13.1
70°-80°	127.2	1.4
80°-90°	13.3	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°	8925.0	100.0
0°-180°	8925.0	100.0



REPORT NUMBER: P193480

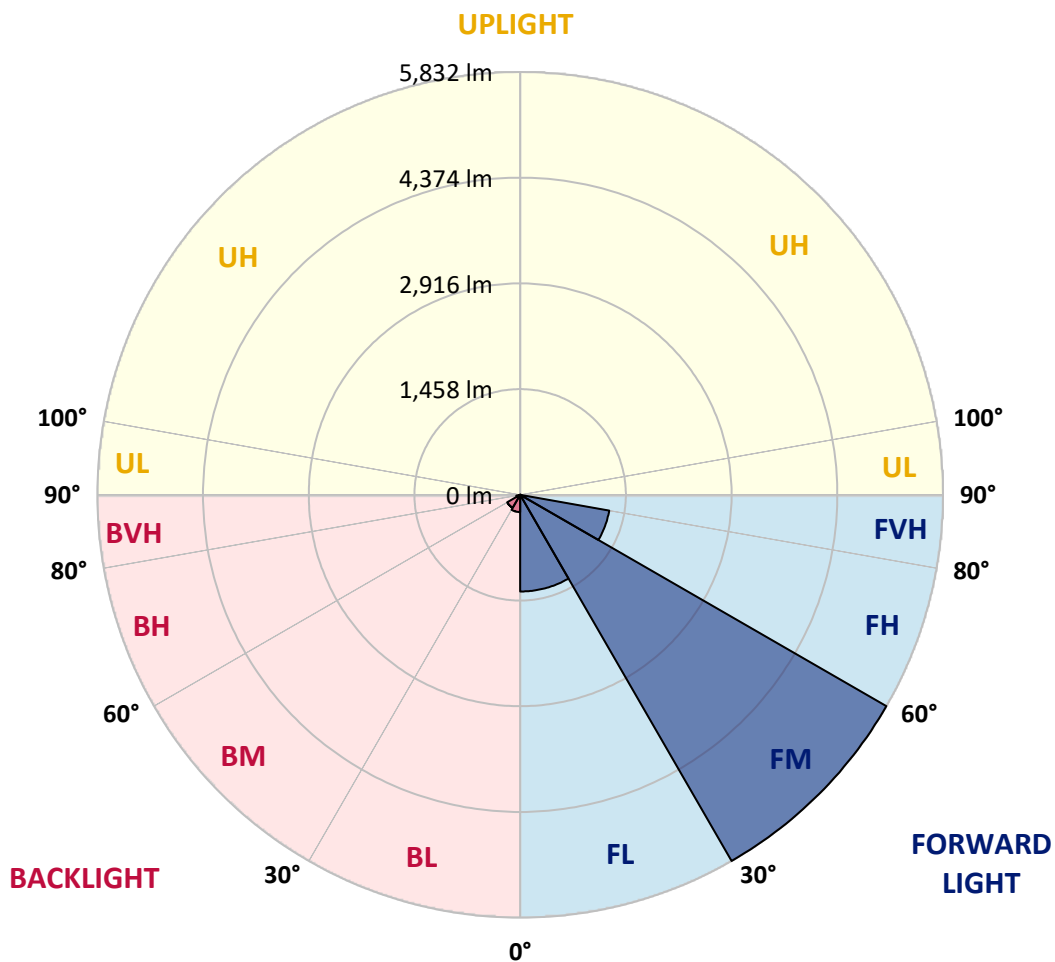
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1333.7	14.9			
FM	(30°-60°)	5832.5	65.3			
FH	(60°-80°)	1247.3	14.0			G1/1800
FVH	(80°-90°)	13.0	0.1			G1/100
BL	(0°-30°)	237.9	2.7	B1/500		
BM	(30°-60°)	206.9	2.3	B0/220		
BH	(60°-80°)	53.4	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





REPORT NUMBER: P193480

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4
2.5°	2972.7	2941.1	2931.6	2925.3	2896.3	2860.0	2810.5	2787.3	2739.9	2663.5	2569.8
5°	3245.0	3239.2	3218.1	3206.5	3175.5	3123.9	3044.8	3006.9	2931.6	2803.1	2635.1
7.5°	3126.0	3162.3	3191.3	3239.7	3300.8	3298.7	3232.4	3192.9	3108.6	2939.0	2707.8
10°	2666.2	2695.6	2743.0	2853.1	3077.5	3275.5	3353.5	3325.1	3257.6	3063.8	2777.8
12.5°	2576.1	2572.9	2581.4	2613.5	2730.9	3013.2	3333.0	3390.4	3376.7	3178.1	2844.2
15°	2624.0	2620.3	2619.3	2630.3	2658.8	2777.8	3178.6	3343.5	3449.4	3284.0	2900.5
17.5°	2758.3	2742.5	2734.1	2725.1	2716.7	2746.2	2993.2	3212.3	3460.4	3376.7	2947.4
20°	2988.5	2962.2	2931.1	2880.5	2833.1	2818.4	2915.3	3077.5	3420.9	3447.2	2978.0
22.5°	3277.6	3243.9	3190.2	3098.0	3001.7	2945.8	2953.7	3034.8	3361.9	3524.1	2992.2
25°	3602.6	3559.4	3487.8	3359.8	3218.1	3119.1	3067.5	3095.9	3335.1	3614.2	3008.5
27.5°	3950.8	3902.8	3809.1	3634.8	3474.1	3340.3	3235.0	3231.3	3380.9	3732.2	3034.8
30°	4295.8	4288.4	4166.2	3981.8	3769.1	3606.3	3454.6	3435.1	3508.9	3895.5	3087.0
32.5°	4756.1	4700.8	4551.2	4361.6	4116.2	3920.7	3741.1	3695.8	3705.3	4085.6	3167.6
35°	5336.5	5275.9	5065.3	4803.5	4529.1	4298.4	4099.8	4038.2	4015.0	4396.9	3303.5
37.5°	5711.5	5710.5	5578.3	5311.8	5017.3	4762.9	4547.0	4474.8	4428.0	4772.9	3514.1
40°	5721.5	5746.3	5763.7	5761.0	5551.4	5317.0	5125.3	5036.3	4927.3	5275.4	3786.4
42.5°	5414.5	5478.2	5631.5	5891.7	6016.0	5922.7	5761.0	5673.6	5511.4	5813.2	4118.3
45°	4999.4	5043.7	5311.8	5791.1	6267.7	6523.2	6399.9	6243.5	6029.7	6374.1	4415.8
47.5°	4813.5	4821.4	4994.7	5520.9	6286.7	7015.1	7089.9	6835.5	6500.5	6826.0	4648.6
50°	4257.8	4272.1	4511.2	5052.6	6064.4	7247.4	7783.0	7541.8	7014.1	7174.2	4733.4
52.5°	3209.2	3229.2	3532.6	4283.1	5453.4	7148.4	8279.2	8220.7	7576.6	7344.3	4738.2
55°	1893.5	1919.8	2209.5	2883.2	4289.4	6518.4	8316.1	8530.9	8020.6	7444.9	4730.8
57.5°	884.3	902.8	1068.7	1485.3	2667.7	5151.6	7760.9	8318.2	8265.5	7498.1	4783.0
60°	469.8	475.1	515.1	643.1	1205.6	3266.6	6677.5	7511.3	8042.2	7571.8	4846.7
62.5°	359.2	360.8	358.7	374.0	506.7	1450.0	5047.4	6175.0	7143.1	7516.5	4776.1
65°	311.3	313.9	299.2	295.5	325.0	517.2	2998.5	4401.6	5613.0	6770.2	4295.2
67.5°	279.2	280.2	262.3	247.0	252.3	279.7	1183.0	2409.6	3715.3	4962.6	3113.3
70°	257.0	256.0	236.5	212.3	205.4	191.2	376.1	883.3	1775.5	2516.6	1447.9
72.5°	227.5	228.1	218.6	187.0	170.7	133.8	174.3	257.6	529.9	685.8	339.2
75°	201.7	199.1	187.5	167.5	140.6	88.0	86.4	114.8	163.3	162.2	73.2
77.5°	145.9	143.3	146.9	137.5	108.0	56.9	43.2	55.3	66.4	64.3	20.5
80°	106.9	105.3	94.8	114.3	95.3	39.0	26.9	29.5	34.2	29.0	6.3
82.5°	73.2	72.7	66.9	63.2	54.3	23.7	16.9	18.4	22.1	16.3	3.2
85°	11.6	13.2	48.5	38.4	32.1	10.5	11.6	12.6	14.7	9.0	1.1
87.5°	0.0	0.0	22.6	20.0	6.3	4.2	6.8	7.4	7.4	4.7	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



REPORT NUMBER: P193480

CATALOG NUMBER: GLEON-AF-02-LED-E1-AFL-8030-1200-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4
2.5°	2521.8	2469.2	2371.7	2271.1	2177.9	2066.8	1990.4	1933.0	1866.6	1848.7	1887.7
5°	2539.2	2439.7	2230.0	2002.0	1787.6	1550.1	1368.4	1224.6	1094.5	1050.2	1090.3
7.5°	2566.6	2418.6	2076.8	1701.2	1328.3	957.5	703.7	536.7	430.3	398.7	415.6
10°	2594.0	2388.1	1899.3	1345.2	835.3	466.1	303.4	242.3	219.6	214.9	217.5
12.5°	2616.6	2347.0	1682.8	956.5	446.6	249.7	198.6	188.6	185.4	185.4	186.5
15°	2630.3	2284.8	1426.3	608.3	257.0	188.6	173.3	170.1	170.1	170.7	171.7
17.5°	2628.8	2205.8	1145.6	368.2	192.2	167.0	158.0	155.4	154.8	155.9	156.4
20°	2609.3	2102.6	863.8	242.8	167.5	152.2	143.3	138.5	138.0	139.0	140.1
22.5°	2572.4	1975.1	617.8	187.0	151.2	138.0	126.9	122.7	122.7	123.8	124.8
25°	2527.6	1819.2	422.4	158.5	136.4	122.7	112.2	108.5	109.6	112.2	112.7
27.5°	2471.8	1643.8	287.1	135.9	118.5	107.4	99.5	96.9	99.5	103.2	104.3
30°	2423.9	1461.1	204.9	117.5	100.6	92.7	88.0	88.0	91.6	98.5	100.1
32.5°	2387.0	1284.1	158.0	103.8	87.4	80.6	78.0	80.6	86.4	93.2	94.8
35°	2382.3	1138.2	133.8	92.7	78.0	71.1	70.1	74.8	80.6	85.9	86.9
37.5°	2418.6	1003.4	120.6	83.7	69.5	63.2	62.2	67.9	73.7	80.1	81.6
40°	2487.6	897.5	111.1	75.3	62.7	55.8	53.7	57.9	65.8	74.3	76.4
42.5°	2577.1	810.1	100.6	66.9	55.8	46.3	43.7	48.5	56.9	65.8	68.5
45°	2662.5	734.7	89.0	57.4	46.9	35.8	34.8	41.1	45.3	54.3	56.4
47.5°	2709.3	668.4	79.0	46.9	36.3	29.0	29.0	30.5	34.8	45.3	47.4
50°	2693.5	615.2	68.5	34.8	25.3	22.1	22.1	21.6	27.9	36.3	37.9
52.5°	2661.9	584.6	59.0	26.9	17.4	15.8	14.2	15.8	19.5	23.2	23.7
55°	2657.2	579.4	49.5	21.6	12.1	10.5	7.9	7.9	7.9	7.4	6.3
57.5°	2694.1	587.8	41.6	17.4	9.0	6.8	4.2	0.0	0.0	0.0	0.0
60°	2732.0	596.8	35.8	12.1	6.3	3.7	0.5	0.0	0.0	0.0	0.0
62.5°	2668.8	576.7	30.0	7.4	4.7	1.6	0.0	0.0	0.0	0.0	0.0
65°	2344.3	490.9	23.7	5.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1667.5	328.7	15.8	3.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	761.1	137.5	10.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	162.8	42.7	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	33.2	31.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.5	49.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.3	35.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.1	5.3	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)