

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: P193453

Luminaire Tested: **GLEON-AF-05-LED-E1-AFL-8030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193453  
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-05-LED-E1-AFL-8030-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 615mA 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: 13094 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 162  
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

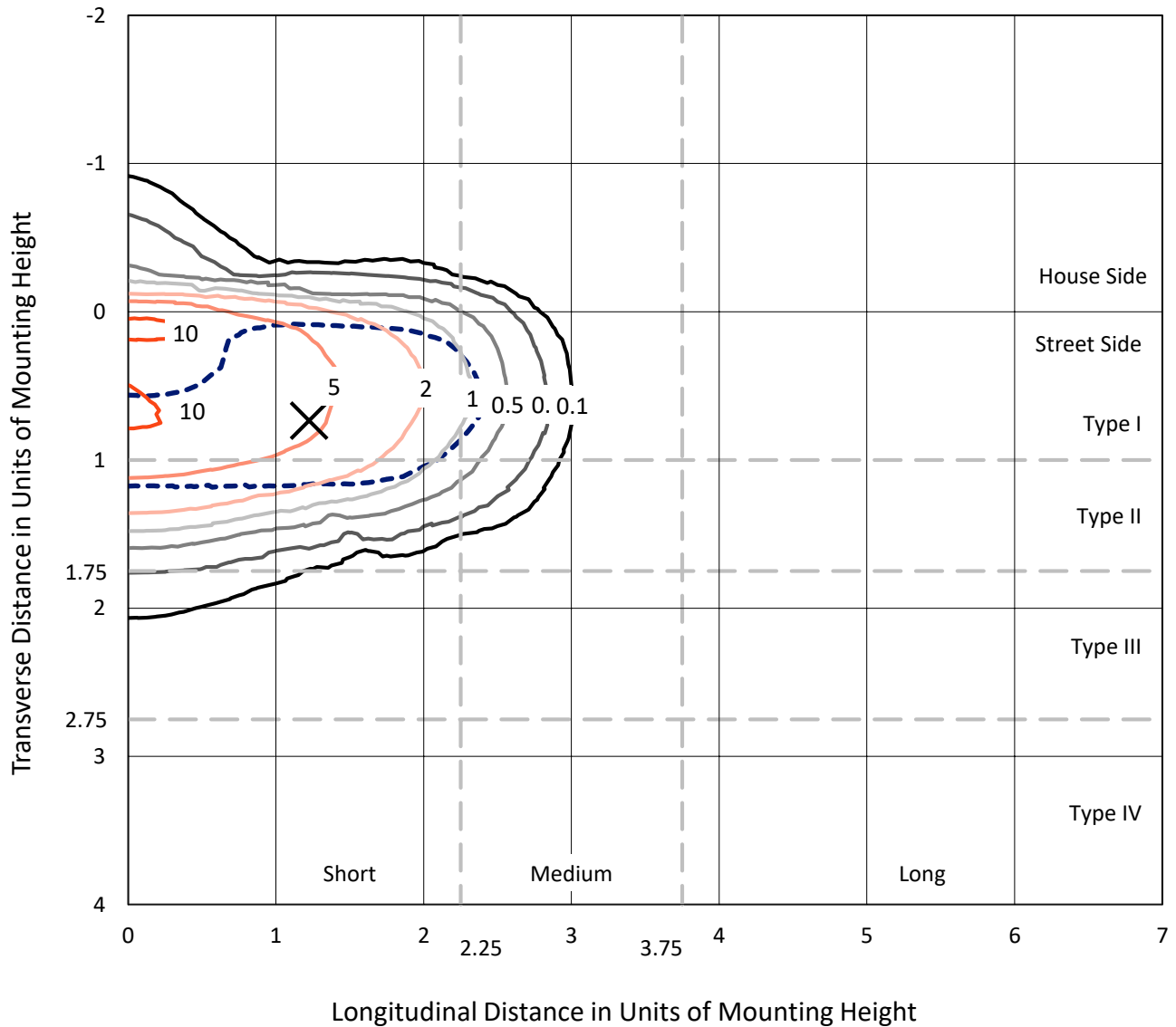


REPORT NUMBER: P193453

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-8030-600-HSS

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

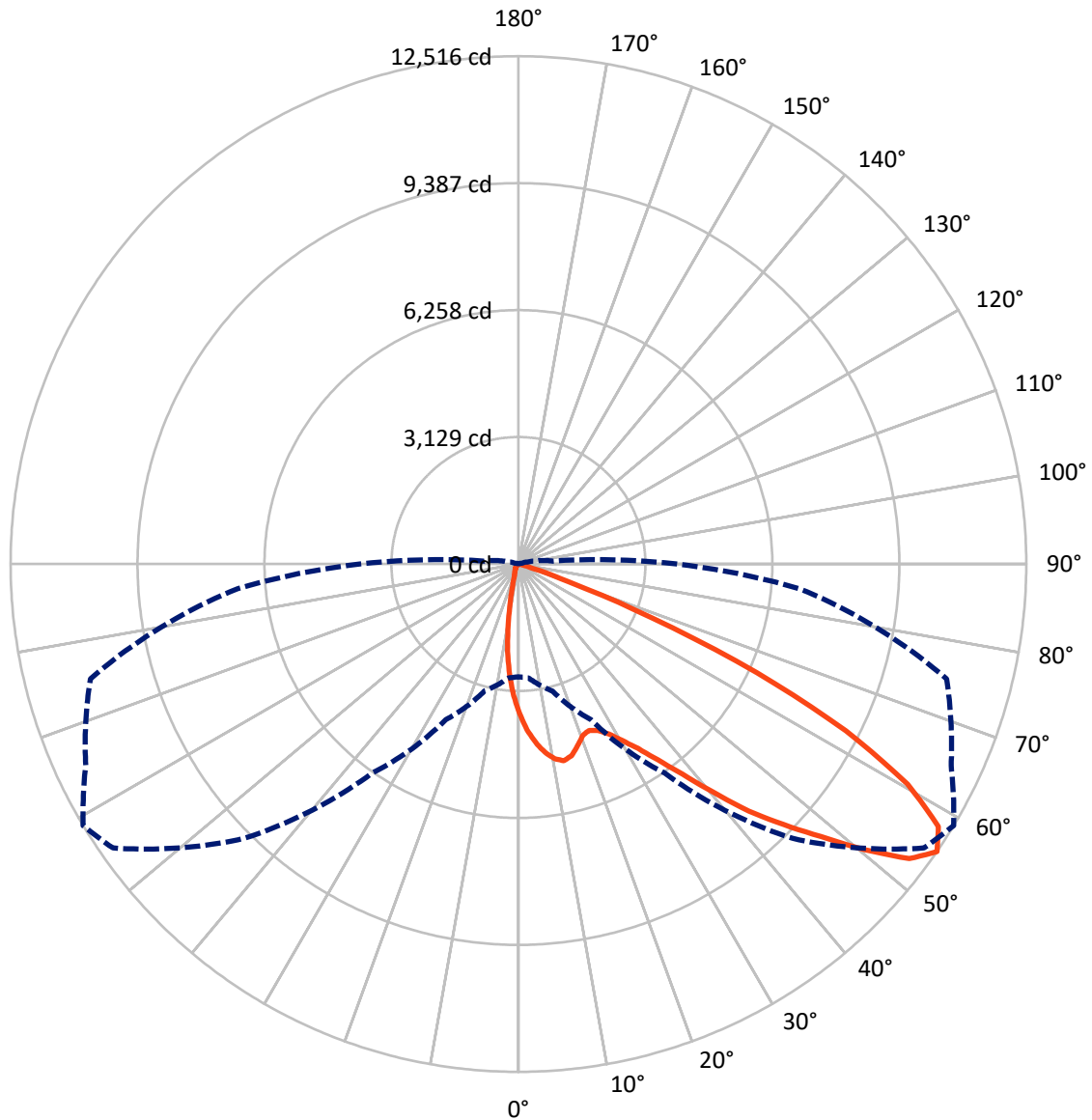


Based on 20 foot mounting height. Maximum calculated value = 11.5 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P193453

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-8030-600-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P193453

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-8030-600-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	731.4	0.0	731.4
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	12362.6	0.0	12362.6
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	13094.0	0.0	13094.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.7	2.4
10°-20°	739.2	5.6
20°-30°	1257.8	9.6
30°-40°	2163.2	16.5
40°-50°	3339.7	25.5
50°-60°	3357.5	25.6
60°-70°	1721.7	13.1
70°-80°	186.6	1.4
80°-90°	19.5	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°	13094.0	100.0
0°-180°	13094.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P193453

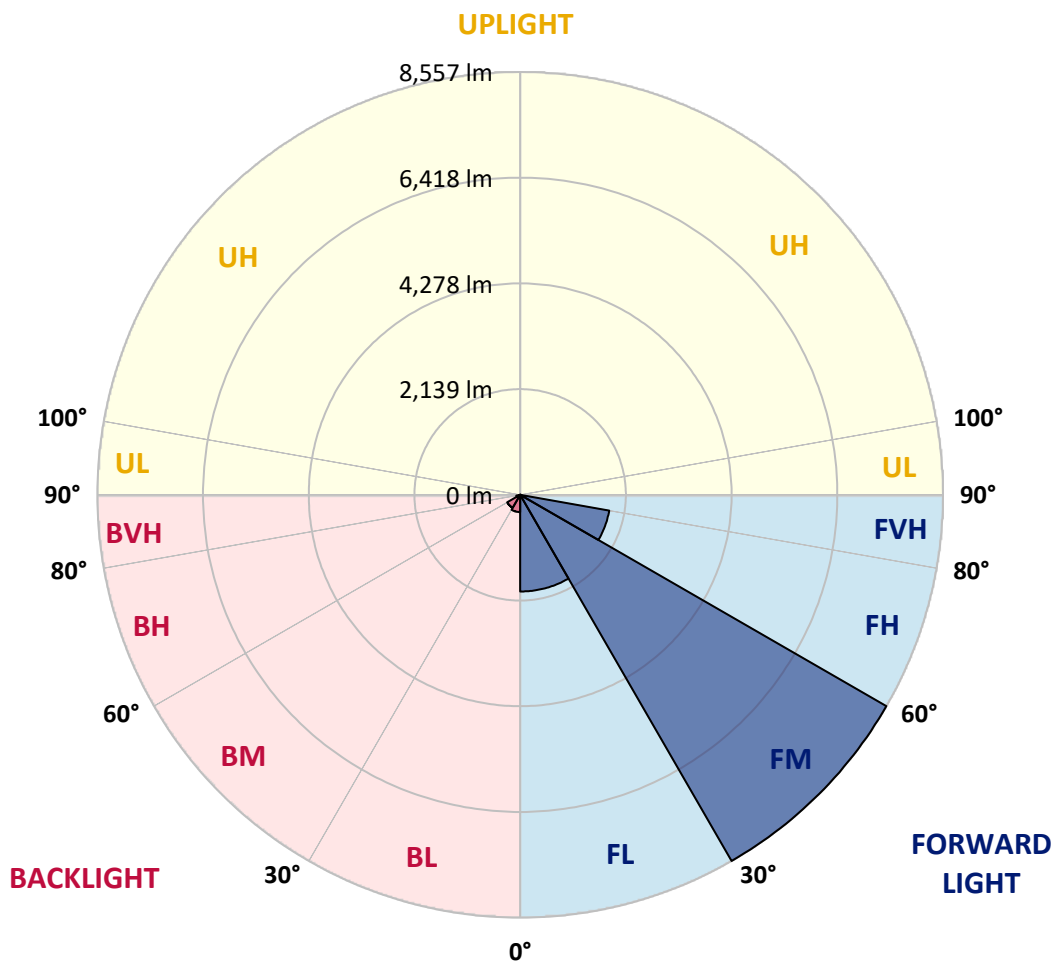
CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-8030-600-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1956.7	14.9			
FM	(30°-60°)	8556.9	65.3			
FH	(60°-80°)	1830.0	14.0			G2/5000
FVH	(80°-90°)	19.1	0.1			G1/100
BL	(0°-30°)	349.1	2.7	B1/500		
BM	(30°-60°)	303.5	2.3	B1/1000		
BH	(60°-80°)	78.4	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-G2**

Type II Short





REPORT NUMBER: P193453

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-8030-600-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3685.9	3685.9	3685.9	3685.9	3685.9	3685.9	3685.9	3685.9	3685.9	3685.9	3685.9
2.5°	4361.3	4314.9	4301.0	4291.7	4249.2	4195.9	4123.3	4089.3	4019.7	3907.7	3770.1
5°	4760.8	4752.3	4721.4	4704.4	4658.8	4583.1	4467.1	4411.5	4301.0	4112.5	3866.0
7.5°	4586.1	4639.5	4682.0	4753.1	4842.7	4839.6	4742.2	4684.3	4560.6	4311.8	3972.6
10°	3911.6	3954.8	4024.4	4185.9	4515.1	4805.6	4920.0	4878.2	4779.3	4495.0	4075.4
12.5°	3779.4	3774.8	3787.1	3834.3	4006.6	4420.8	4889.8	4974.1	4954.0	4662.6	4172.7
15°	3849.7	3844.3	3842.8	3859.0	3900.7	4075.4	4663.4	4905.3	5060.6	4818.0	4255.4
17.5°	4046.8	4023.6	4011.2	3998.1	3985.7	4029.0	4391.4	4712.9	5076.8	4954.0	4324.2
20°	4384.5	4345.8	4300.2	4226.1	4156.5	4134.9	4277.1	4515.1	5018.9	5057.5	4369.0
22.5°	4808.7	4759.2	4680.4	4545.2	4403.8	4321.9	4333.5	4452.5	4932.3	5170.3	4389.9
25°	5285.5	5222.1	5117.0	4929.2	4721.4	4576.1	4500.4	4542.1	4892.9	5302.5	4413.8
27.5°	5796.2	5725.9	5588.4	5332.6	5096.9	4900.6	4746.1	4740.7	4960.1	5475.6	4452.5
30°	6302.4	6291.6	6112.3	5841.8	5529.6	5290.9	5068.3	5039.7	5147.9	5715.1	4529.0
32.5°	6977.7	6896.6	6677.1	6399.0	6038.9	5752.2	5488.7	5422.2	5436.1	5994.1	4647.2
35°	7829.3	7740.4	7431.3	7047.3	6644.7	6306.2	6014.9	5924.5	5890.5	6450.7	4846.6
37.5°	8379.5	8377.9	8184.0	7793.0	7361.0	6987.8	6671.0	6565.1	6496.3	7002.5	5155.6
40°	8394.1	8430.5	8456.0	8452.1	8144.6	7800.7	7519.4	7388.8	7228.9	7739.6	5555.1
42.5°	7943.6	8037.1	8262.0	8643.7	8826.1	8689.3	8452.1	8323.8	8085.8	8528.6	6042.0
45°	7334.7	7399.6	7793.0	8496.1	9195.5	9570.2	9389.4	9159.9	8846.2	9351.6	6478.6
47.5°	7062.0	7073.6	7327.8	8099.7	9223.3	10292.0	10401.7	10028.5	9537.0	10014.6	6820.1
50°	6246.7	6267.6	6618.4	7412.8	8897.2	10632.7	11418.6	11064.7	10290.4	10525.3	6944.5
52.5°	4708.2	4737.6	5182.7	6283.8	8000.8	10487.5	12146.5	12060.7	11115.7	10774.9	6951.5
55°	2778.0	2816.6	3241.6	4229.9	6293.1	9563.3	12200.6	12515.9	11767.1	10922.5	6940.6
57.5°	1297.4	1324.5	1567.9	2179.1	3913.9	7558.1	11386.2	12203.7	12126.4	11000.6	7017.1
60°	689.3	697.0	755.7	943.5	1768.8	4792.5	9796.6	11019.9	11798.8	11108.7	7110.6
62.5°	527.0	529.3	526.2	548.6	743.4	2127.3	7405.1	9059.5	10479.7	11027.6	7007.1
65°	456.7	460.5	438.9	433.5	476.8	758.8	4399.1	6457.7	8235.0	9932.6	6301.6
67.5°	409.5	411.1	384.8	362.4	370.1	410.3	1735.5	3535.2	5450.8	7280.6	4567.6
70°	377.1	375.5	347.0	311.4	301.4	280.5	551.7	1295.9	2604.9	3692.1	2124.2
72.5°	333.8	334.6	320.7	274.3	250.4	196.3	255.8	377.9	777.4	1006.1	497.6
75°	296.0	292.1	275.1	245.7	206.3	129.0	126.7	168.5	239.5	238.0	107.4
77.5°	214.0	210.2	215.6	201.7	158.4	83.5	63.4	81.1	97.4	94.3	30.1
80°	156.9	154.5	139.1	167.7	139.9	57.2	39.4	43.3	50.2	42.5	9.3
82.5°	107.4	106.6	98.1	92.7	79.6	34.8	24.7	27.0	32.5	24.0	4.6
85°	17.0	19.3	71.1	56.4	47.1	15.5	17.0	18.5	21.6	13.1	1.5
87.5°	0.0	0.0	33.2	29.4	9.3	6.2	10.0	10.8	10.8	7.0	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



REPORT NUMBER: P193453

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-8030-600-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3685.9	3685.9	3685.9	3685.9	3685.9	3685.9	3685.9	3685.9	3685.9	3685.9	3685.9
2.5°	3699.8	3622.6	3479.6	3332.0	3195.2	3032.2	2920.1	2835.9	2738.5	2712.3	2769.5
5°	3725.3	3579.3	3271.7	2937.1	2622.6	2274.1	2007.5	1796.6	1605.7	1540.8	1599.5
7.5°	3765.5	3548.4	3046.9	2495.9	1948.8	1404.8	1032.4	787.4	631.3	585.0	609.7
10°	3805.7	3503.5	2786.5	1973.5	1225.5	683.9	445.1	355.5	322.2	315.3	319.1
12.5°	3838.9	3443.3	2468.9	1403.3	655.3	366.3	291.3	276.6	272.0	272.0	273.5
15°	3859.0	3352.1	2092.5	892.5	377.1	276.6	254.2	249.6	249.6	250.4	251.9
17.5°	3856.7	3236.2	1680.7	540.1	282.0	245.0	231.8	228.0	227.2	228.7	229.5
20°	3828.1	3084.7	1267.3	356.2	245.7	223.3	210.2	203.2	202.5	204.0	205.5
22.5°	3774.0	2897.7	906.4	274.3	221.8	202.5	186.2	180.0	180.0	181.6	183.1
25°	3708.3	2669.0	619.7	232.6	200.1	180.0	164.6	159.2	160.7	164.6	165.4
27.5°	3626.4	2411.7	421.1	199.4	173.9	157.6	146.0	142.2	146.0	151.5	153.0
30°	3556.1	2143.5	300.6	172.3	147.6	136.0	129.0	129.0	134.5	144.5	146.8
32.5°	3502.0	1883.9	231.8	152.2	128.3	118.2	114.4	118.2	126.7	136.8	139.1
35°	3495.0	1669.9	196.3	136.0	114.4	104.3	102.8	109.7	118.2	126.0	127.5
37.5°	3548.4	1472.0	177.0	122.9	102.0	92.7	91.2	99.7	108.2	117.5	119.8
40°	3649.6	1316.7	163.0	110.5	92.0	81.9	78.8	85.0	96.6	109.0	112.0
42.5°	3781.0	1188.5	147.6	98.1	81.9	68.0	64.1	71.1	83.5	96.6	100.5
45°	3906.1	1078.0	130.6	84.2	68.8	52.5	51.0	60.3	66.5	79.6	82.7
47.5°	3974.9	980.6	115.9	68.8	53.3	42.5	42.5	44.8	51.0	66.5	69.5
50°	3951.7	902.5	100.5	51.0	37.1	32.5	32.5	31.7	41.0	53.3	55.6
52.5°	3905.4	857.7	86.5	39.4	25.5	23.2	20.9	23.2	28.6	34.0	34.8
55°	3898.4	850.0	72.6	31.7	17.8	15.5	11.6	11.6	11.6	10.8	9.3
57.5°	3952.5	862.4	61.0	25.5	13.1	10.0	6.2	0.0	0.0	0.0	0.0
60°	4008.1	875.5	52.5	17.8	9.3	5.4	0.8	0.0	0.0	0.0	0.0
62.5°	3915.4	846.1	44.0	10.8	7.0	2.3	0.0	0.0	0.0	0.0	0.0
65°	3439.4	720.2	34.8	7.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2446.5	482.2	23.2	4.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	1116.6	201.7	14.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	238.8	62.6	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	48.7	45.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.5	71.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.3	51.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.5	7.7	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)