

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: P300613

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300613  
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-7030-HSS  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

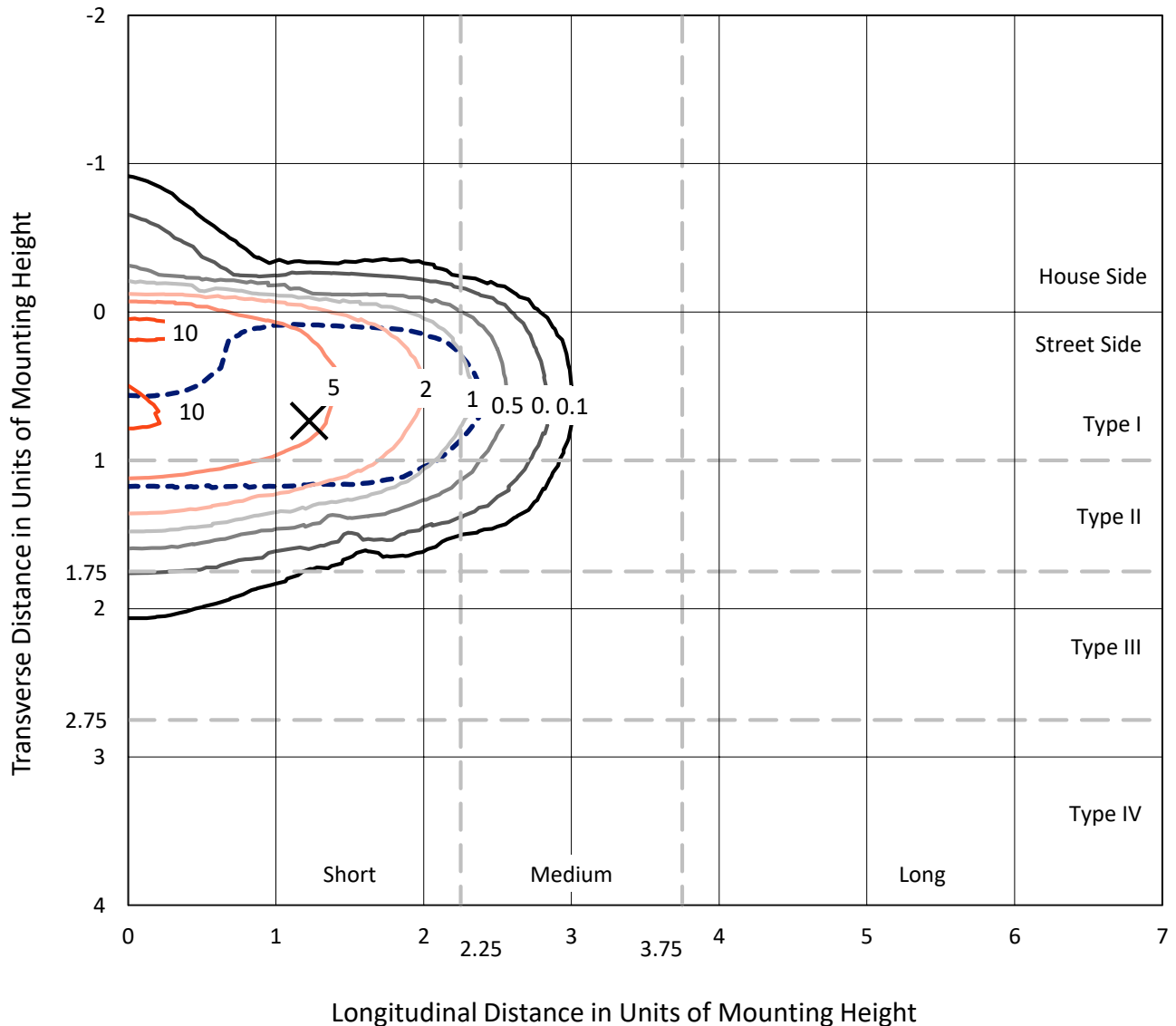
Lumens per Lamp: N/A  
Luminaire Lumens: 13072.3 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (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

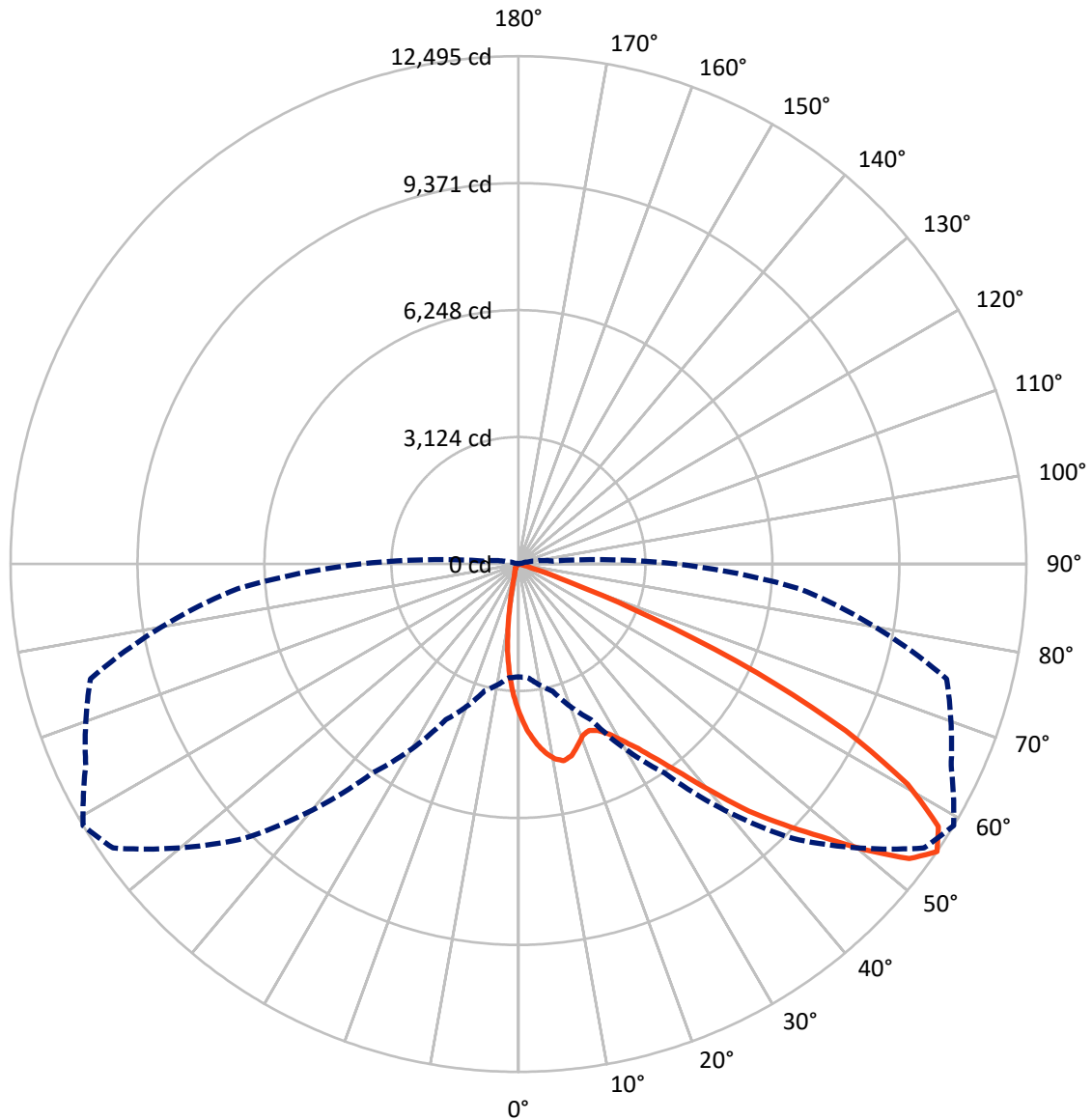
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.4 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	730.2	0.0	730.2
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	12342.2	0.0	12342.2
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	13072.3	0.0	13072.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.2	2.4
10°-20°	738.0	5.6
20°-30°	1255.7	9.6
30°-40°	2159.6	16.5
40°-50°	3334.2	25.5
50°-60°	3351.9	25.6
60°-70°	1718.9	13.1
70°-80°	186.3	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°	13072.3	100.0
0°-180°	13072.3	100.0

**Coefficient of Utilization**



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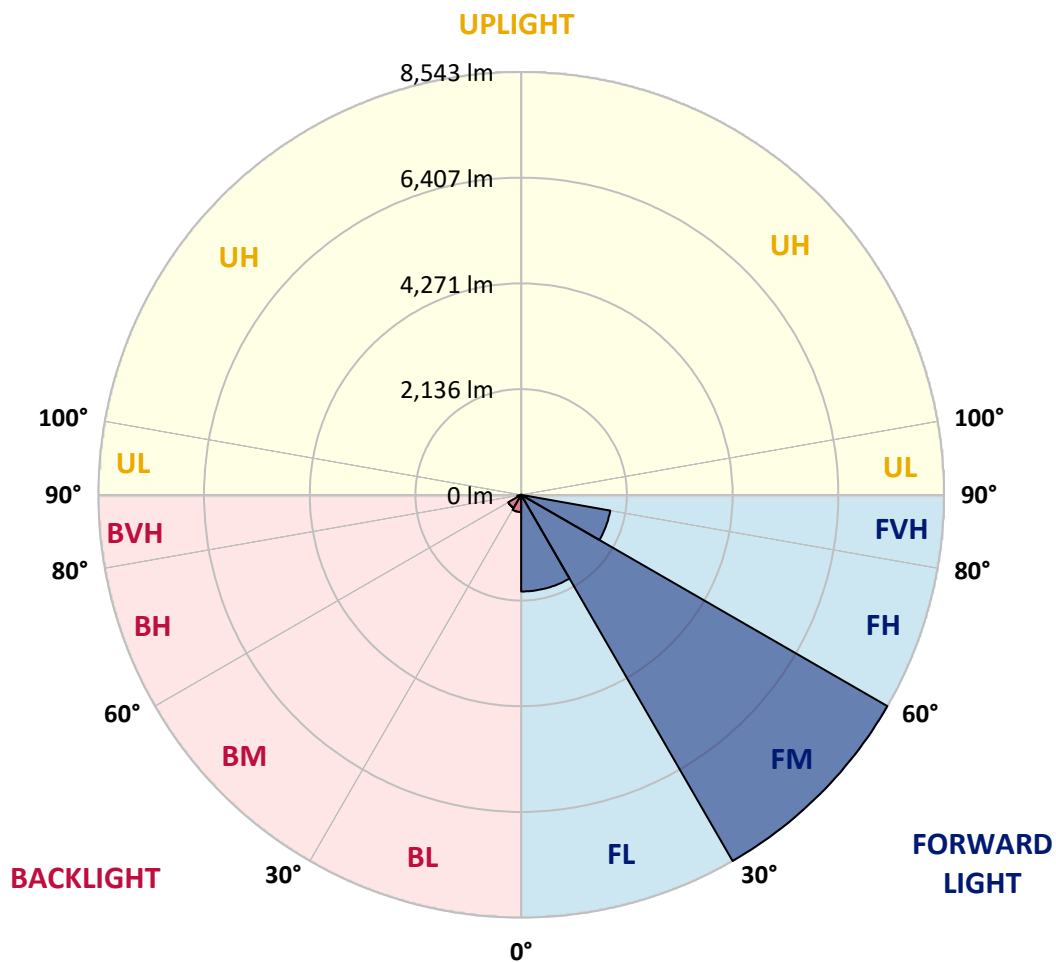
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1953.4	14.9			
FM	(30°-60°)	8542.7	65.3			
FH	(60°-80°)	1826.9	14.0			G2/5000
FVH	(80°-90°)	19.1	0.1			G1/100
BL	(0°-30°)	348.5	2.7	B1/500		
BM	(30°-60°)	303.0	2.3	B1/1000		
BH	(60°-80°)	78.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8
2.5°	4354.1	4307.8	4293.9	4284.6	4242.2	4189.0	4116.5	4082.5	4013.1	3901.2	3763.9
5°	4752.9	4744.4	4713.6	4696.6	4651.1	4575.5	4459.8	4404.2	4293.9	4105.7	3859.6
7.5°	4578.6	4631.8	4674.2	4745.2	4834.7	4831.6	4734.4	4676.5	4553.1	4304.7	3966.0
10°	3905.1	3948.3	4017.7	4179.0	4507.6	4797.7	4911.8	4870.2	4771.4	4487.5	4068.6
12.5°	3773.2	3768.5	3780.9	3827.9	4000.0	4413.5	4881.7	4965.8	4945.8	4654.9	4165.8
15°	3843.4	3838.0	3836.4	3852.6	3894.3	4068.6	4655.7	4897.2	5052.2	4810.0	4248.4
17.5°	4040.1	4016.9	4004.6	3991.5	3979.1	4022.3	4384.2	4705.1	5068.4	4945.8	4317.0
20°	4377.2	4338.6	4293.1	4219.1	4149.6	4128.0	4270.0	4507.6	5010.6	5049.1	4361.8
22.5°	4800.7	4751.4	4672.7	4537.7	4396.5	4314.7	4326.3	4445.1	4924.2	5161.8	4382.6
25°	5276.7	5213.5	5108.5	4921.1	4713.6	4568.5	4492.9	4534.6	4884.8	5293.7	4406.5
27.5°	5786.7	5716.5	5579.1	5323.8	5088.5	4892.5	4738.3	4732.9	4951.9	5466.5	4445.1
30°	6292.0	6281.2	6102.2	5832.2	5520.5	5282.1	5059.9	5031.4	5139.4	5705.7	4521.5
32.5°	6966.2	6885.2	6666.1	6388.4	6028.9	5742.7	5479.6	5413.3	5427.2	5984.1	4639.5
35°	7816.3	7727.6	7419.0	7035.6	6633.7	6295.8	6005.0	5914.7	5880.8	6440.1	4838.5
37.5°	8365.6	8364.1	8170.4	7780.1	7348.8	6976.2	6659.9	6554.2	6485.6	6990.9	5147.1
40°	8380.3	8416.5	8442.0	8438.1	8131.1	7787.8	7507.0	7376.6	7216.9	7726.9	5546.0
42.5°	7930.5	8023.9	8248.4	8629.5	8811.5	8675.0	8438.1	8310.1	8072.5	8514.5	6032.0
45°	7322.6	7387.4	7780.1	8482.1	9180.3	9554.4	9373.9	9144.8	8831.6	9336.1	6467.8
47.5°	7050.3	7061.9	7315.7	8086.4	9208.0	10275.0	10384.5	10011.9	9521.2	9998.0	6808.8
50°	6236.4	6257.2	6607.5	7400.5	8882.5	10615.2	11399.7	11046.4	10273.4	10507.9	6933.0
52.5°	4700.5	4729.8	5174.1	6273.4	7987.6	10470.1	12126.4	12040.8	11097.3	10757.1	6940.0
55°	2773.4	2811.9	3236.2	4222.9	6282.7	9547.5	12180.4	12495.2	11747.7	10904.5	6929.2
57.5°	1295.3	1322.3	1565.3	2175.5	3907.4	7545.6	11367.3	12183.5	12106.4	10982.4	7005.5
60°	688.1	695.8	754.5	941.9	1765.9	4784.5	9780.5	11001.7	11779.3	11090.4	7098.9
62.5°	526.1	528.4	525.4	547.7	742.1	2123.8	7392.8	9044.5	10462.4	11009.4	6995.5
65°	455.9	459.8	438.2	432.8	476.0	757.6	4391.9	6447.0	8221.4	9916.2	6291.2
67.5°	408.9	410.4	384.2	361.8	369.5	409.6	1732.7	3529.4	5441.8	7268.6	4560.0
70°	376.5	374.9	346.4	310.9	300.9	280.0	550.8	1293.7	2600.6	3686.0	2120.7
72.5°	333.3	334.0	320.2	273.9	250.0	195.9	255.4	377.2	776.1	1004.4	496.8
75°	295.5	291.6	274.6	245.3	206.0	128.8	126.5	168.2	239.1	237.6	107.2
77.5°	213.7	209.8	215.2	201.3	158.1	83.3	63.3	81.0	97.2	94.1	30.1
80°	156.6	154.3	138.9	167.4	139.6	57.1	39.3	43.2	50.1	42.4	9.3
82.5°	107.2	106.5	98.0	92.6	79.5	34.7	24.7	27.0	32.4	23.9	4.6
85°	17.0	19.3	71.0	56.3	47.1	15.4	17.0	18.5	21.6	13.1	1.5
87.5°	0.0	0.0	33.2	29.3	9.3	6.2	10.0	10.8	10.8	6.9	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°	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8
2.5°	3693.7	3616.6	3473.8	3326.5	3190.0	3027.2	2915.3	2831.2	2734.0	2707.8	2764.9
5°	3719.2	3573.4	3266.3	2932.3	2618.3	2270.4	2004.2	1793.6	1603.1	1538.3	1596.9
7.5°	3759.3	3542.5	3041.8	2491.8	1945.6	1402.5	1030.7	786.1	630.3	584.0	608.7
10°	3799.4	3497.8	2781.9	1970.3	1223.5	682.7	444.4	354.9	321.7	314.8	318.6
12.5°	3832.6	3437.6	2464.8	1401.0	654.2	365.7	290.8	276.2	271.6	271.6	273.1
15°	3852.6	3346.6	2089.1	891.0	376.5	276.2	253.8	249.2	249.2	250.0	251.5
17.5°	3850.3	3230.8	1677.9	539.2	281.6	244.5	231.4	227.6	226.8	228.3	229.1
20°	3821.8	3079.6	1265.2	355.6	245.3	222.9	209.8	202.9	202.1	203.7	205.2
22.5°	3767.8	2892.9	904.9	273.9	221.4	202.1	185.9	179.7	179.7	181.3	182.8
25°	3702.2	2664.6	618.7	232.2	199.8	179.7	164.3	158.9	160.5	164.3	165.1
27.5°	3620.4	2407.7	420.4	199.0	173.6	157.4	145.8	141.9	145.8	151.2	152.7
30°	3550.2	2140.0	300.1	172.0	147.3	135.8	128.8	128.8	134.2	144.3	146.6
32.5°	3496.2	1880.8	231.4	152.0	128.1	118.0	114.2	118.0	126.5	136.5	138.9
35°	3489.3	1667.1	195.9	135.8	114.2	104.1	102.6	109.5	118.0	125.7	127.3
37.5°	3542.5	1469.6	176.7	122.7	101.8	92.6	91.0	99.5	108.0	117.3	119.6
40°	3643.6	1314.6	162.8	110.3	91.8	81.8	78.7	84.9	96.4	108.8	111.9
42.5°	3774.7	1186.5	147.3	98.0	81.8	67.9	64.0	71.0	83.3	96.4	100.3
45°	3899.7	1076.2	130.4	84.1	68.7	52.5	50.9	60.2	66.3	79.5	82.5
47.5°	3968.3	979.0	115.7	68.7	53.2	42.4	42.4	44.7	50.9	66.3	69.4
50°	3945.2	901.1	100.3	50.9	37.0	32.4	32.4	31.6	40.9	53.2	55.5
52.5°	3898.9	856.3	86.4	39.3	25.5	23.1	20.8	23.1	28.5	33.9	34.7
55°	3892.0	848.6	72.5	31.6	17.7	15.4	11.6	11.6	11.6	10.8	9.3
57.5°	3946.0	860.9	60.9	25.5	13.1	10.0	6.2	0.0	0.0	0.0	0.0
60°	4001.5	874.1	52.5	17.7	9.3	5.4	0.8	0.0	0.0	0.0	0.0
62.5°	3908.9	844.7	44.0	10.8	6.9	2.3	0.0	0.0	0.0	0.0	0.0
65°	3433.7	719.0	34.7	7.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2442.4	481.4	23.1	4.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	1114.7	201.3	14.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	238.4	62.5	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	48.6	45.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.4	71.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.3	51.7	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)