

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: P269140

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269140
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-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA 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: 12924.1 lumens
Efficiency: N/A
Efficacy: 77.9 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

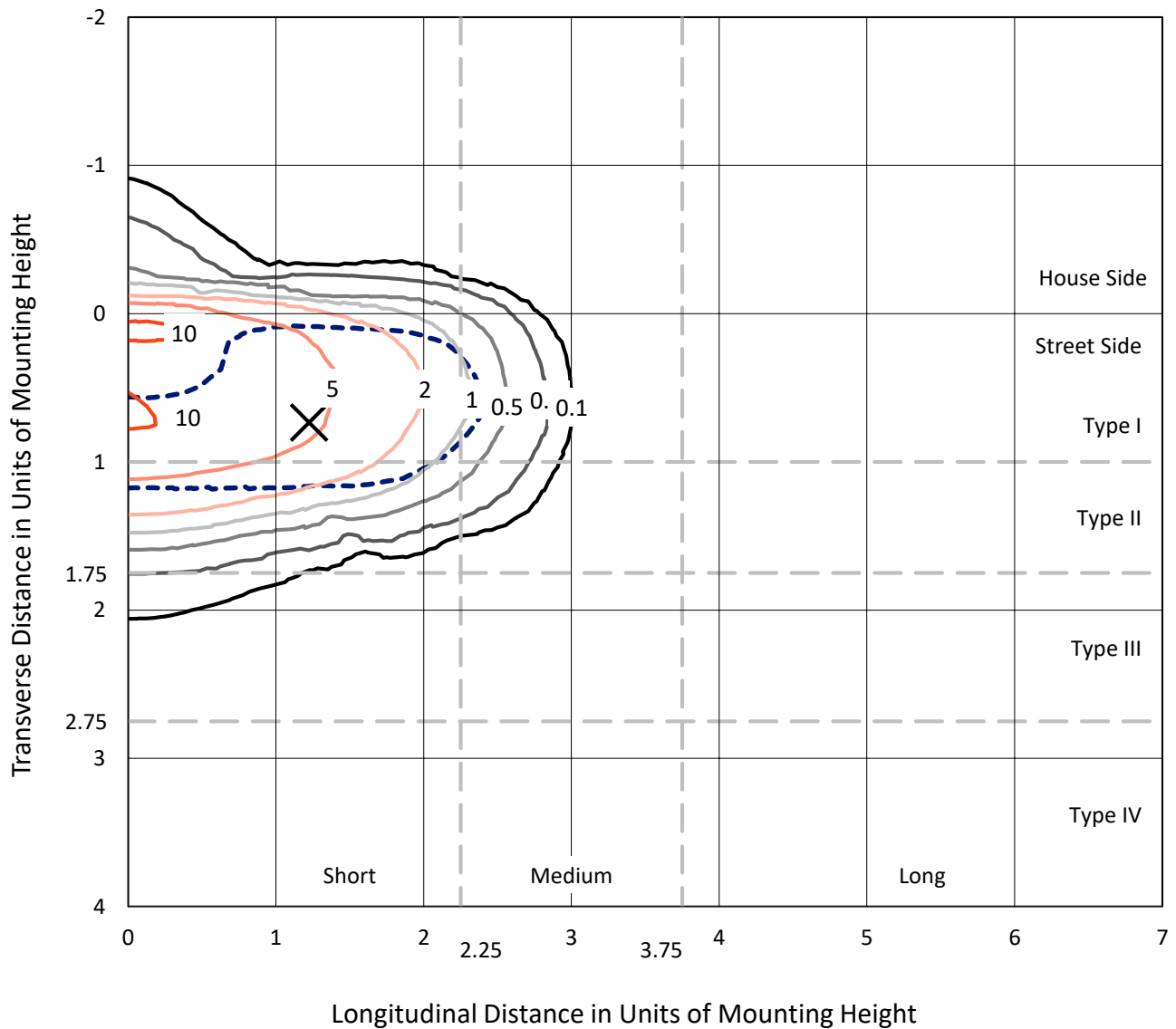


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

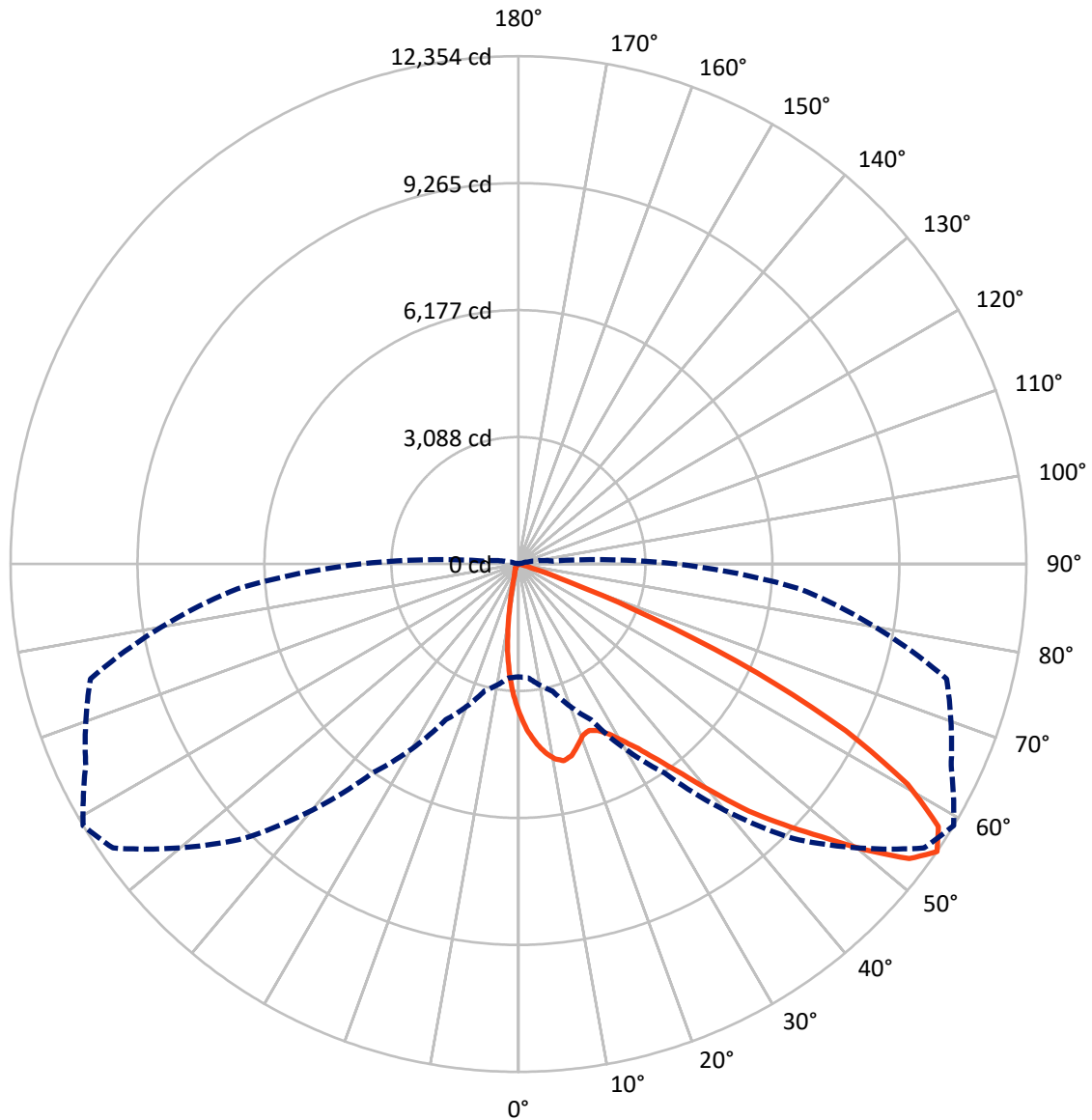


Based on 20 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - Full Cutoff

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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
House Side	Lumens	721.9	0.0	721.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	12202.2	0.0	12202.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	12924.1	0.0	12924.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.7	2.4
10°-20°	729.6	5.6
20°-30°	1241.5	9.6
30°-40°	2135.1	16.5
40°-50°	3296.4	25.5
50°-60°	3313.9	25.6
60°-70°	1699.4	13.1
70°-80°	184.2	1.4
80°-90°	19.2	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°	12924.1	100.0
0°-180°	12924.1	100.0

Coefficient of Utilization



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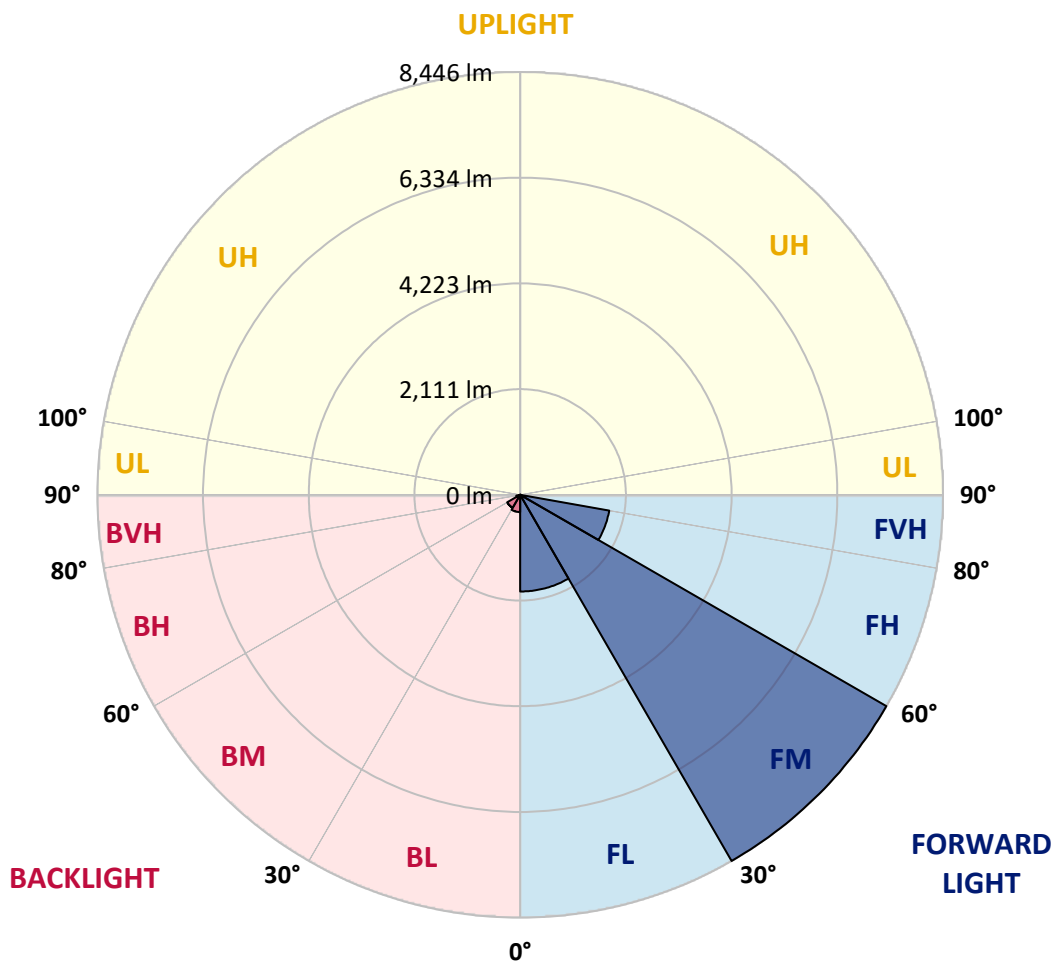
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1931.3	14.9			
FM	(30°-60°)	8445.9	65.3			
FH	(60°-80°)	1806.2	14.0			G2/5000
FVH	(80°-90°)	18.8	0.1			G1/100
BL	(0°-30°)	344.6	2.7	B1/500		
BM	(30°-60°)	299.6	2.3	B1/1000		
BH	(60°-80°)	77.3	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°	3638.0	3638.0	3638.0	3638.0	3638.0	3638.0	3638.0	3638.0	3638.0	3638.0	3638.0
2.5°	4304.7	4259.0	4245.2	4236.0	4194.0	4141.5	4069.9	4036.3	3967.5	3857.1	3721.1
5°	4699.0	4690.6	4660.1	4643.3	4598.3	4523.7	4409.2	4354.3	4245.2	4059.1	3815.8
7.5°	4526.6	4579.3	4621.2	4691.4	4779.9	4776.7	4680.7	4623.5	4501.4	4255.9	3921.0
10°	3860.8	3903.6	3972.1	4131.6	4456.5	4743.3	4856.1	4814.9	4717.3	4436.6	4022.5
12.5°	3730.4	3725.8	3737.9	3784.5	3954.6	4363.4	4826.5	4909.5	4889.7	4602.1	4118.5
15°	3799.8	3794.4	3793.0	3809.0	3850.1	4022.5	4602.9	4841.7	4994.9	4755.4	4200.3
17.5°	3994.3	3971.3	3959.2	3946.3	3934.0	3976.7	4334.4	4651.8	5010.9	4889.7	4268.0
20°	4327.6	4289.4	4244.4	4171.2	4102.6	4081.2	4221.6	4456.5	4953.8	4991.9	4312.4
22.5°	4746.4	4697.4	4619.8	4486.2	4346.7	4265.8	4277.3	4394.7	4868.4	5103.2	4333.0
25°	5216.8	5154.4	5050.6	4865.3	4660.1	4516.8	4441.9	4483.3	4829.5	5233.6	4356.6
27.5°	5721.0	5651.6	5516.0	5263.3	5030.8	4837.1	4684.5	4679.2	4895.9	5404.6	4394.7
30°	6220.7	6210.0	6032.9	5766.0	5457.9	5222.2	5002.7	4974.4	5081.2	5640.9	4470.2
32.5°	6887.2	6807.1	6590.5	6316.0	5960.6	5677.6	5417.5	5351.9	5365.7	5916.2	4586.9
35°	7727.7	7640.1	7334.9	6955.8	6558.4	6224.4	5936.9	5847.6	5814.1	6367.0	4783.7
37.5°	8270.8	8269.3	8077.7	7691.8	7265.5	6897.1	6584.4	6480.0	6412.0	6911.6	5088.8
40°	8285.2	8321.1	8346.3	8342.5	8038.9	7699.6	7421.8	7293.0	7135.1	7639.2	5483.1
42.5°	7840.5	7932.9	8154.9	8531.7	8711.7	8576.6	8342.5	8215.9	7980.9	8417.9	5963.6
45°	7239.6	7303.7	7691.8	8385.9	9076.1	9446.0	9267.6	9041.1	8731.4	9230.3	6394.6
47.5°	6970.4	6981.7	7232.8	7994.6	9103.7	10158.5	10266.8	9898.3	9413.2	9884.7	6731.5
50°	6165.6	6186.3	6532.6	7316.6	8781.8	10494.8	11270.5	10921.1	10157.0	10388.8	6854.4
52.5°	4647.1	4676.1	5115.5	6202.3	7897.0	10351.3	11989.0	11904.2	10971.4	10635.2	6861.3
55°	2741.9	2780.1	3199.6	4175.1	6211.5	9439.2	12042.4	12353.5	11614.5	10780.7	6850.7
57.5°	1280.5	1307.3	1547.5	2150.8	3863.2	7460.1	11238.4	12045.5	11969.1	10857.9	6926.1
60°	680.3	687.9	746.0	931.3	1745.9	4730.3	9669.5	10876.9	11645.7	10964.6	7018.4
62.5°	520.2	522.5	519.4	541.5	733.7	2099.7	7309.0	8942.0	10343.9	10884.6	6916.2
65°	450.8	454.5	433.3	428.0	470.6	748.9	4342.0	6374.0	8128.1	9803.8	6219.9
67.5°	404.2	405.8	379.9	357.7	365.3	405.0	1713.1	3489.3	5380.0	7186.3	4508.4
70°	372.2	370.7	342.4	307.4	297.5	276.9	544.6	1279.0	2571.0	3644.2	2096.6
72.5°	329.5	330.2	316.6	270.7	247.2	193.8	252.5	372.9	767.3	993.0	491.2
75°	292.0	288.3	271.5	242.5	203.6	127.4	125.0	166.2	236.4	234.8	106.0
77.5°	211.3	207.5	212.8	199.1	156.3	82.4	62.5	80.0	96.1	93.1	29.7
80°	154.9	152.5	137.4	165.5	138.1	56.5	38.8	42.7	49.5	42.0	9.2
82.5°	106.0	105.2	96.8	91.5	78.5	34.3	24.4	26.7	32.0	23.6	4.6
85°	16.8	19.0	70.2	55.7	46.5	15.2	16.8	18.3	21.4	12.9	1.5
87.5°	0.0	0.0	32.8	28.9	9.2	6.1	9.9	10.7	10.7	6.8	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°	3638.0	3638.0	3638.0	3638.0	3638.0	3638.0	3638.0	3638.0	3638.0	3638.0	3638.0
2.5°	3651.8	3575.6	3434.5	3288.8	3153.8	2992.9	2882.2	2799.1	2703.0	2677.0	2733.5
5°	3677.0	3532.9	3229.2	2899.0	2588.6	2244.7	1981.5	1773.3	1584.9	1520.8	1578.9
7.5°	3716.6	3502.3	3007.3	2463.5	1923.5	1386.7	1018.9	777.3	623.2	577.4	601.8
10°	3756.4	3458.0	2750.3	1948.0	1209.7	674.9	439.4	350.9	318.0	311.3	314.9
12.5°	3789.1	3398.6	2436.8	1385.0	646.8	361.5	287.5	273.1	268.5	268.5	270.0
15°	3809.0	3308.5	2065.5	880.9	372.2	273.1	250.9	246.3	246.3	247.2	248.7
17.5°	3806.7	3194.3	1658.9	533.1	278.4	241.7	228.8	224.9	224.2	225.7	226.6
20°	3778.5	3044.7	1250.8	351.5	242.5	220.4	207.5	200.6	199.9	201.4	202.8
22.5°	3725.0	2860.2	894.6	270.7	218.8	199.9	183.9	177.8	177.8	179.2	180.7
25°	3660.2	2634.4	611.7	229.5	197.5	177.8	162.5	157.2	158.6	162.5	163.2
27.5°	3579.3	2380.4	415.6	196.8	171.5	155.5	144.2	140.3	144.2	149.5	151.1
30°	3509.9	2115.8	296.7	170.0	145.6	134.2	127.4	127.4	132.7	142.7	144.8
32.5°	3456.6	1859.5	228.8	150.2	126.7	116.7	112.8	116.7	125.0	134.9	137.4
35°	3449.8	1648.2	193.8	134.2	112.8	102.9	101.5	108.2	116.7	124.3	125.9
37.5°	3502.3	1453.0	174.7	121.4	100.7	91.5	90.0	98.4	106.8	115.9	118.1
40°	3602.3	1299.7	160.9	109.1	90.8	80.8	77.9	83.9	95.3	107.5	110.6
42.5°	3731.9	1173.0	145.6	96.8	80.8	67.2	63.3	70.2	82.4	95.3	99.2
45°	3855.4	1064.0	128.8	83.2	67.9	51.8	50.3	59.5	65.5	78.5	81.6
47.5°	3923.3	967.8	114.4	67.9	52.6	42.0	42.0	44.2	50.3	65.5	68.6
50°	3900.5	890.8	99.2	50.3	36.7	32.0	32.0	31.4	40.5	52.6	54.9
52.5°	3854.6	846.7	85.3	38.8	25.2	22.8	20.7	22.8	28.2	33.5	34.3
55°	3847.8	838.9	71.7	31.4	17.5	15.2	11.5	11.5	11.5	10.7	9.2
57.5°	3901.2	851.1	60.2	25.2	12.9	9.9	6.1	0.0	0.0	0.0	0.0
60°	3956.1	864.1	51.8	17.5	9.2	5.3	0.8	0.0	0.0	0.0	0.0
62.5°	3864.6	835.2	43.5	10.7	6.8	2.2	0.0	0.0	0.0	0.0	0.0
65°	3394.9	710.9	34.3	7.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2414.7	475.9	22.8	4.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	1102.1	199.1	14.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	235.6	61.8	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	48.1	44.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.2	71.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.2	51.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.5	7.6	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)