

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: P299576

Luminaire Tested: **GLNA-AF-01-LED-E1-SL2-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-SL2-7030-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4535.7 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

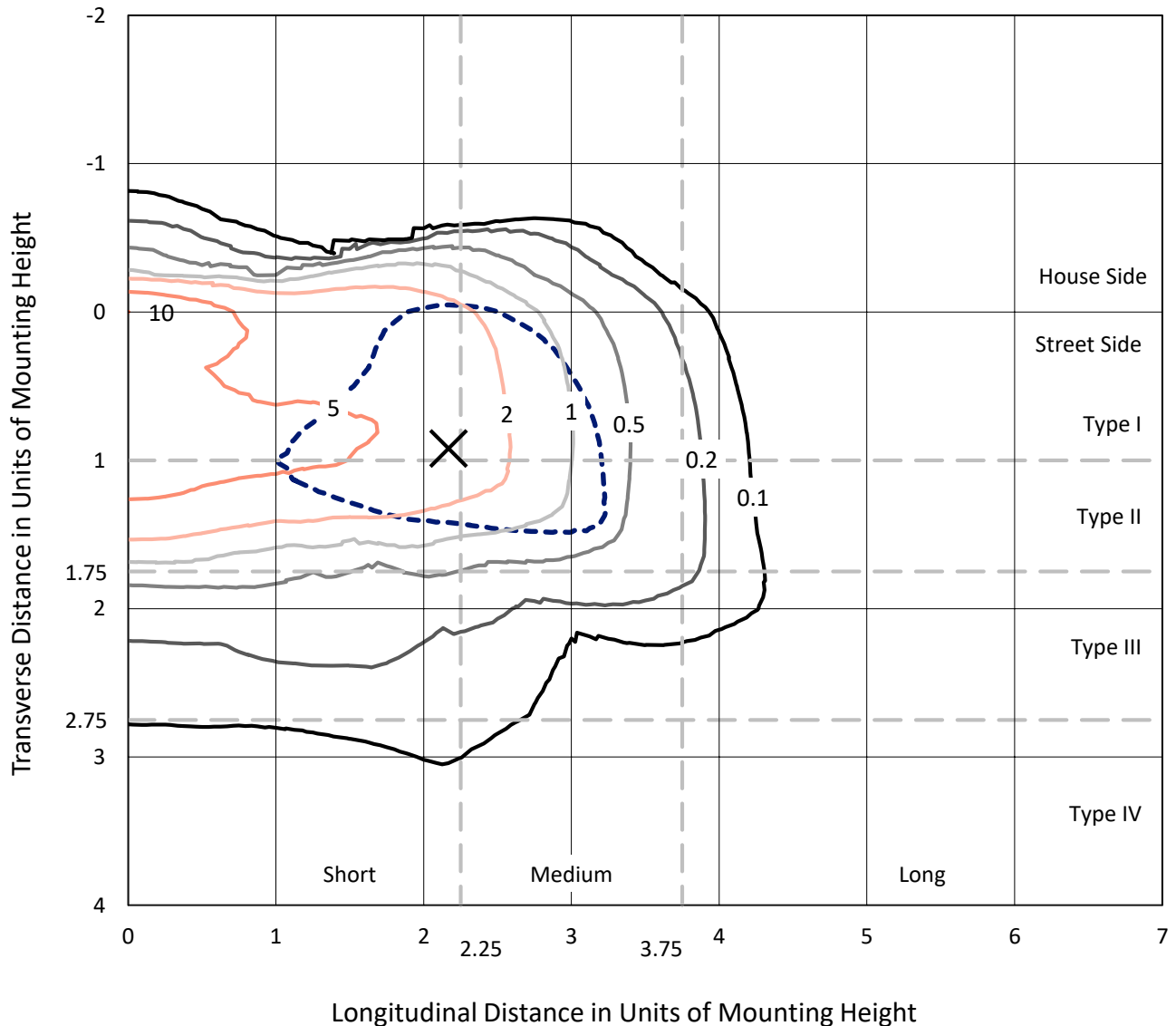
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

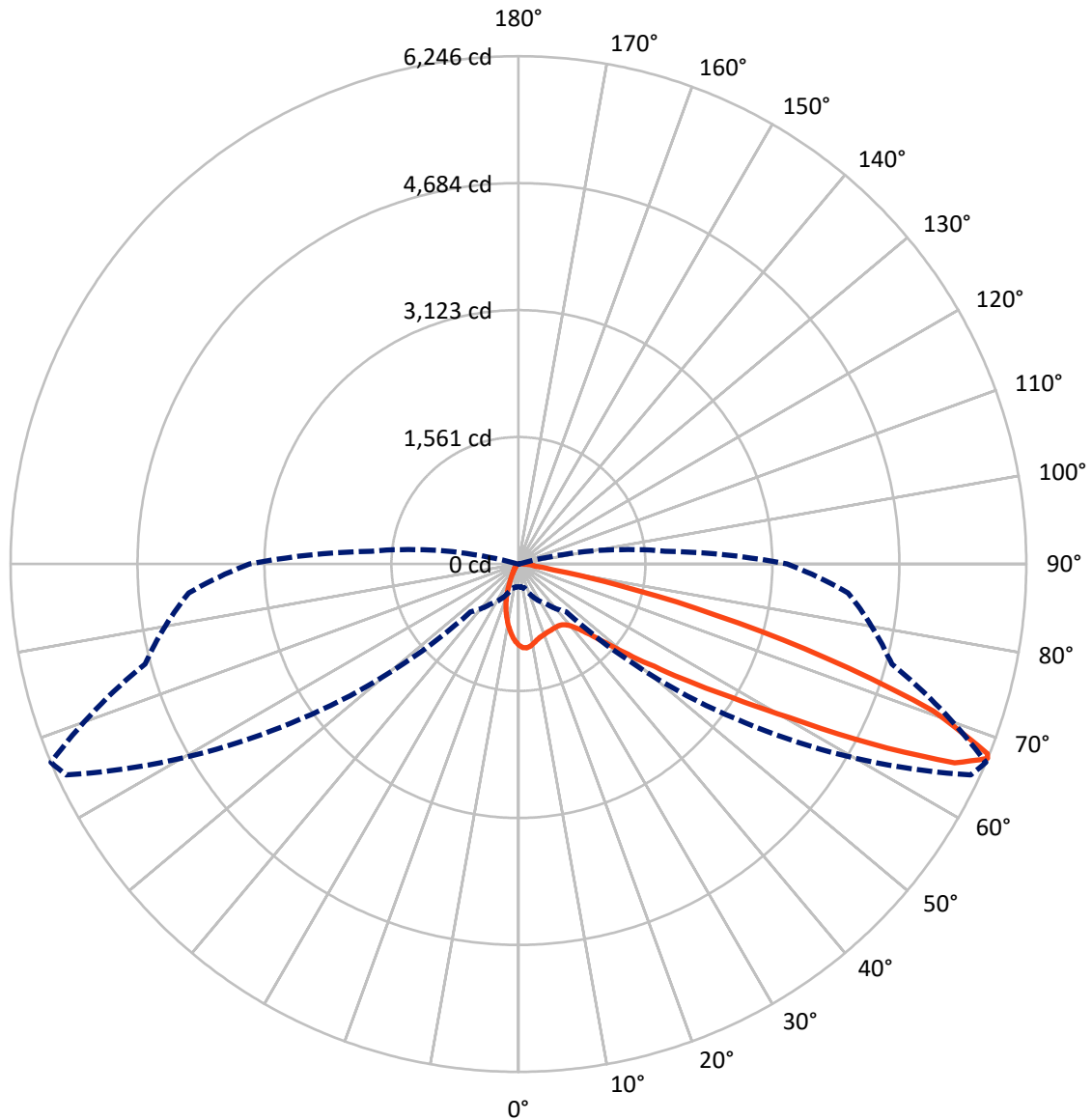
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	470.9	0.0	470.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	4064.8	0.0	4064.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	4535.7	0.0	4535.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	1.8
10°-20°	173.2	3.8
20°-30°	251.9	5.6
30°-40°	392.9	8.7
40°-50°	696.0	15.3
50°-60°	1101.4	24.3
60°-70°	1261.5	27.8
70°-80°	523.3	11.5
80°-90°	54.1	1.2
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°	4535.7	100.0
0°-180°	4535.7	100.0



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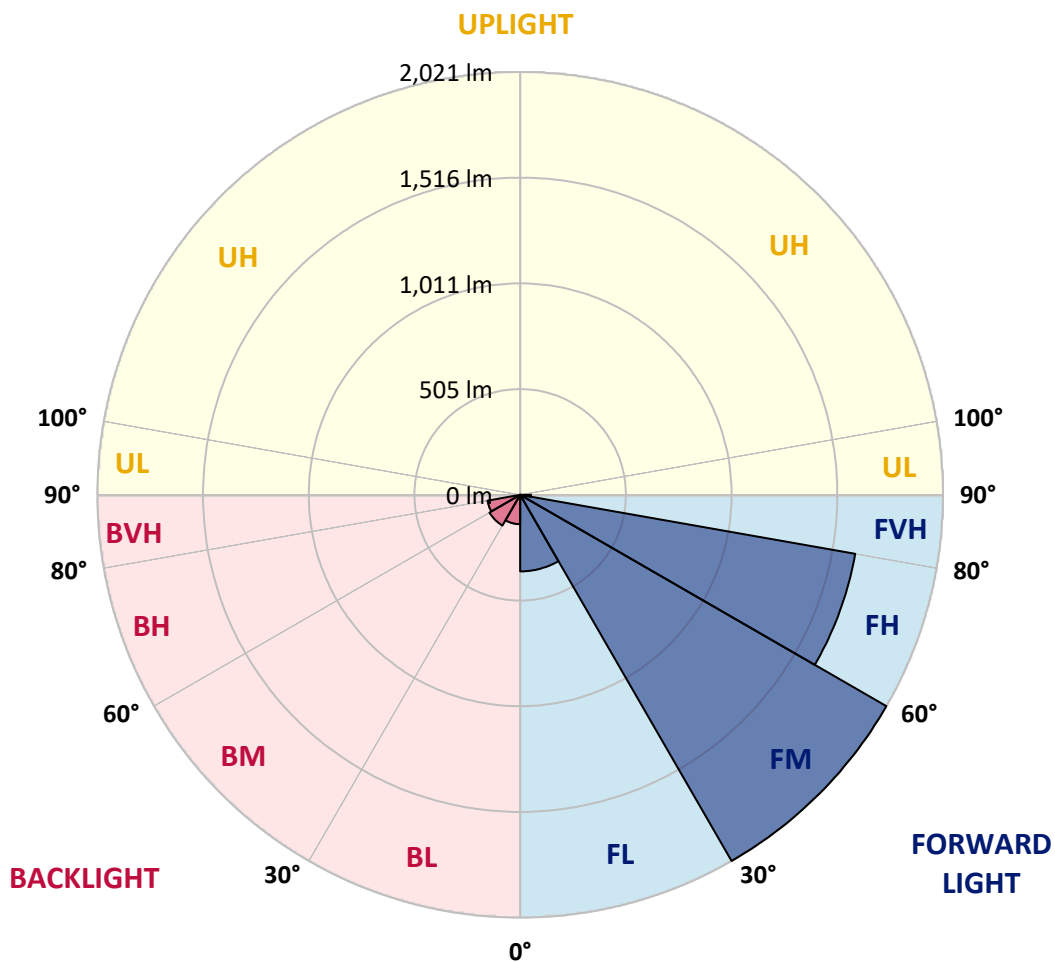
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	366.0	8.1			
FM	(30°-60°)	2021.1	44.6			
FH	(60°-80°)	1626.1	35.9			G1/1800
FVH	(80°-90°)	51.6	1.1			G1/100
BL	(0°-30°)	140.5	3.1	B1/500		
BM	(30°-60°)	169.3	3.7	B0/220		
BH	(60°-80°)	158.7	3.5	B1/500		G1/500
BVH	(80°-90°)	2.4	0.1			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°	65°	67°	75°	85°
0°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3
2.5°	1034.2	1036.3	1036.0	1037.6	1041.3	1041.6	1037.9	1030.7	1029.1	1019.9	1003.7
5°	953.7	959.8	963.5	978.6	995.5	1015.9	1031.2	1036.8	1036.0	1029.4	1005.0
7.5°	861.9	868.0	872.2	890.0	912.5	947.4	987.3	1020.1	1023.0	1030.2	1004.0
10°	800.8	801.9	807.7	824.6	848.2	883.9	931.5	988.9	997.6	1023.8	1001.3
12.5°	750.5	751.3	759.0	777.3	802.4	838.4	888.4	954.8	968.3	1015.9	1000.8
15°	714.8	717.7	724.6	743.7	770.4	806.1	857.4	929.7	945.8	1013.0	1005.6
17.5°	702.9	706.1	708.2	722.0	746.3	781.2	833.9	913.2	931.5	1014.6	1014.8
20°	715.4	717.7	713.0	716.4	731.5	762.7	814.0	899.2	920.9	1016.4	1026.7
22.5°	761.7	762.7	749.8	734.7	732.0	749.2	798.4	888.1	911.4	1021.5	1040.8
25°	841.0	839.2	818.0	785.5	754.8	746.8	789.2	881.2	906.6	1026.7	1055.3
27.5°	936.8	939.4	910.3	863.0	804.5	762.7	787.8	878.3	904.5	1030.4	1068.0
30°	1053.2	1056.9	1023.6	964.0	880.2	801.9	800.0	877.8	903.2	1028.1	1069.1
32.5°	1172.0	1176.5	1150.3	1088.9	981.2	867.5	827.5	883.6	905.8	1019.9	1063.0
35°	1296.3	1302.7	1285.2	1232.6	1118.3	962.2	875.9	901.3	918.3	1019.1	1056.9
37.5°	1468.0	1473.8	1441.0	1385.2	1284.2	1089.2	953.7	934.7	947.6	1031.8	1058.5
40°	1724.4	1723.6	1638.9	1553.5	1466.4	1250.6	1063.0	995.0	1001.6	1070.1	1078.1
42.5°	2003.8	2002.4	1877.3	1747.4	1668.8	1449.2	1206.6	1099.2	1094.7	1140.8	1128.9
45°	2219.1	2218.8	2116.7	1970.4	1912.5	1677.3	1392.4	1244.2	1237.3	1255.6	1222.5
47.5°	2310.9	2312.5	2261.2	2158.3	2182.6	1985.8	1626.5	1454.3	1443.9	1436.5	1386.3
50°	2239.5	2242.6	2246.9	2226.8	2380.7	2400.3	1940.5	1750.3	1745.3	1712.2	1633.6
52.5°	2006.1	2022.3	2072.0	2135.8	2449.5	2798.2	2432.9	2118.0	2091.1	2055.9	1969.4
55°	1613.0	1630.7	1725.2	1879.9	2347.1	3059.6	3122.8	2592.1	2547.1	2442.1	2317.2
57.5°	1067.5	1095.0	1232.0	1428.9	2049.8	3101.7	3811.2	3250.1	3093.5	2805.9	2665.1
60°	588.1	614.6	763.2	941.6	1480.5	2893.7	4274.2	4106.7	3830.0	3212.5	3087.6
62.5°	362.2	376.5	486.3	652.1	887.9	2283.9	4369.9	5183.2	4862.8	3736.1	3598.0
65°	288.4	294.5	348.2	533.1	636.5	1358.5	4060.7	6003.8	5897.0	4369.9	4054.9
67°	279.9	282.3	307.7	457.7	600.0	832.8	3401.9	6137.4	6245.9	4753.5	4069.1
67.5°	281.8	284.4	308.5	436.8	599.0	765.4	3174.9	6084.8	6221.8	4784.0	4005.9
70°	271.7	279.9	353.2	436.5	569.6	636.0	1901.4	5272.1	5414.7	4445.1	3399.0
72.5°	96.3	96.8	152.6	353.2	619.3	642.9	954.8	3864.9	3970.5	3400.3	2450.6
75°	57.1	48.7	50.8	100.5	591.8	624.4	550.8	2469.6	2509.1	1948.5	1241.0
77.5°	39.4	34.4	35.5	44.4	225.4	615.6	437.6	1287.9	1245.8	683.3	264.3
80°	22.5	19.8	21.2	38.9	82.0	574.4	412.7	522.2	445.2	115.9	73.0
82.5°	11.9	10.1	12.2	32.0	57.1	357.9	413.5	252.4	200.0	39.2	49.7
85°	4.2	3.4	5.8	22.0	38.1	109.8	383.3	212.2	166.7	19.0	37.8
87.5°	0.8	0.8	2.4	9.0	15.3	33.6	226.7	125.9	84.4	11.4	25.9
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°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3
2.5°	997.1	985.7	970.4	951.6	929.4	909.8	895.3	880.2	877.0	871.7	870.9
5°	990.5	970.9	932.8	889.2	842.6	800.5	766.4	736.0	722.5	710.9	709.5
7.5°	980.7	951.3	886.5	816.2	743.4	677.3	621.2	581.5	545.0	527.5	524.9
10°	969.3	927.3	834.4	736.8	636.3	542.9	459.5	389.7	347.4	322.2	319.1
12.5°	958.8	903.7	781.2	654.5	520.9	396.0	288.9	222.2	177.8	159.8	157.7
15°	953.7	884.7	731.5	570.4	400.3	252.1	157.9	122.2	107.7	103.4	103.2
17.5°	953.2	868.5	682.8	483.3	280.4	146.6	102.9	93.9	91.0	89.9	89.9
20°	952.9	853.2	634.1	393.1	178.0	97.6	85.7	83.6	81.5	80.2	80.2
22.5°	955.8	839.4	583.3	301.1	112.2	79.1	75.4	73.3	70.6	68.8	68.5
25°	958.8	828.9	531.5	214.3	81.2	68.8	65.1	62.2	58.5	56.1	55.8
27.5°	959.3	815.6	475.9	143.4	68.0	60.1	55.3	50.8	46.6	44.2	43.9
30°	951.3	793.4	414.3	96.8	60.1	52.1	45.8	41.0	37.0	35.2	35.2
32.5°	935.7	765.9	346.6	73.0	53.4	44.7	37.8	33.3	30.7	29.9	29.6
35°	921.7	736.3	277.0	61.9	47.9	37.8	31.0	28.0	26.5	26.2	25.9
37.5°	913.5	712.5	211.6	56.1	42.6	31.7	26.2	24.1	23.3	22.8	23.0
40°	919.9	692.6	156.4	51.3	37.3	26.5	22.2	21.2	20.4	20.1	20.1
42.5°	947.6	689.2	116.1	47.1	32.3	22.0	19.3	18.5	18.0	17.7	18.0
45°	1020.7	710.3	90.2	43.1	27.2	18.5	16.4	16.1	15.9	15.9	15.9
47.5°	1130.4	754.0	75.1	38.6	22.8	15.9	14.3	14.0	13.8	14.0	14.0
50°	1316.4	833.9	67.2	34.1	18.8	13.5	12.2	12.2	12.2	12.2	12.4
52.5°	1599.2	991.0	61.9	29.6	15.3	11.4	10.3	10.3	10.6	10.6	10.8
55°	1914.3	1199.5	57.1	25.1	13.0	9.5	8.5	8.7	9.0	9.3	9.3
57.5°	2256.1	1430.5	53.2	20.6	11.1	7.7	7.1	7.4	7.7	8.2	8.2
60°	2668.6	1680.5	47.4	16.1	9.3	6.1	5.6	6.1	6.9	7.4	7.7
62.5°	3121.5	1922.3	39.9	12.7	7.7	4.8	4.5	5.6	6.6	7.1	7.4
65°	3431.0	1998.2	30.7	10.3	5.8	3.4	3.7	5.0	6.3	7.1	7.1
67°	3305.6	1811.7	25.1	8.7	4.8	2.6	3.4	5.0	6.3	6.9	7.1
67.5°	3218.6	1738.7	24.1	8.5	4.5	2.6	3.4	5.0	6.3	7.1	7.1
70°	2618.8	1306.1	20.1	6.3	3.7	2.4	2.9	4.8	6.1	6.9	6.9
72.5°	1819.6	805.3	18.0	4.5	3.2	2.1	2.6	4.5	5.8	6.6	6.9
75°	865.1	291.5	15.3	3.4	2.9	1.9	2.4	4.5	5.8	6.6	6.6
77.5°	176.5	67.7	12.4	2.9	2.4	1.9	2.1	4.2	5.6	6.3	6.3
80°	57.9	26.2	9.3	2.6	2.4	1.9	2.1	4.0	5.6	6.1	6.3
82.5°	41.8	13.2	6.1	2.6	2.4	1.9	1.9	4.0	5.3	6.1	6.1
85°	32.0	9.3	4.0	2.6	2.4	1.9	1.9	3.7	5.0	5.8	5.8
87.5°	21.2	3.7	3.2	2.6	2.4	1.9	1.9	3.7	4.8	5.6	5.8
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)