

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: P532445

Luminaire Tested: **GALN-SA7D-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31510 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

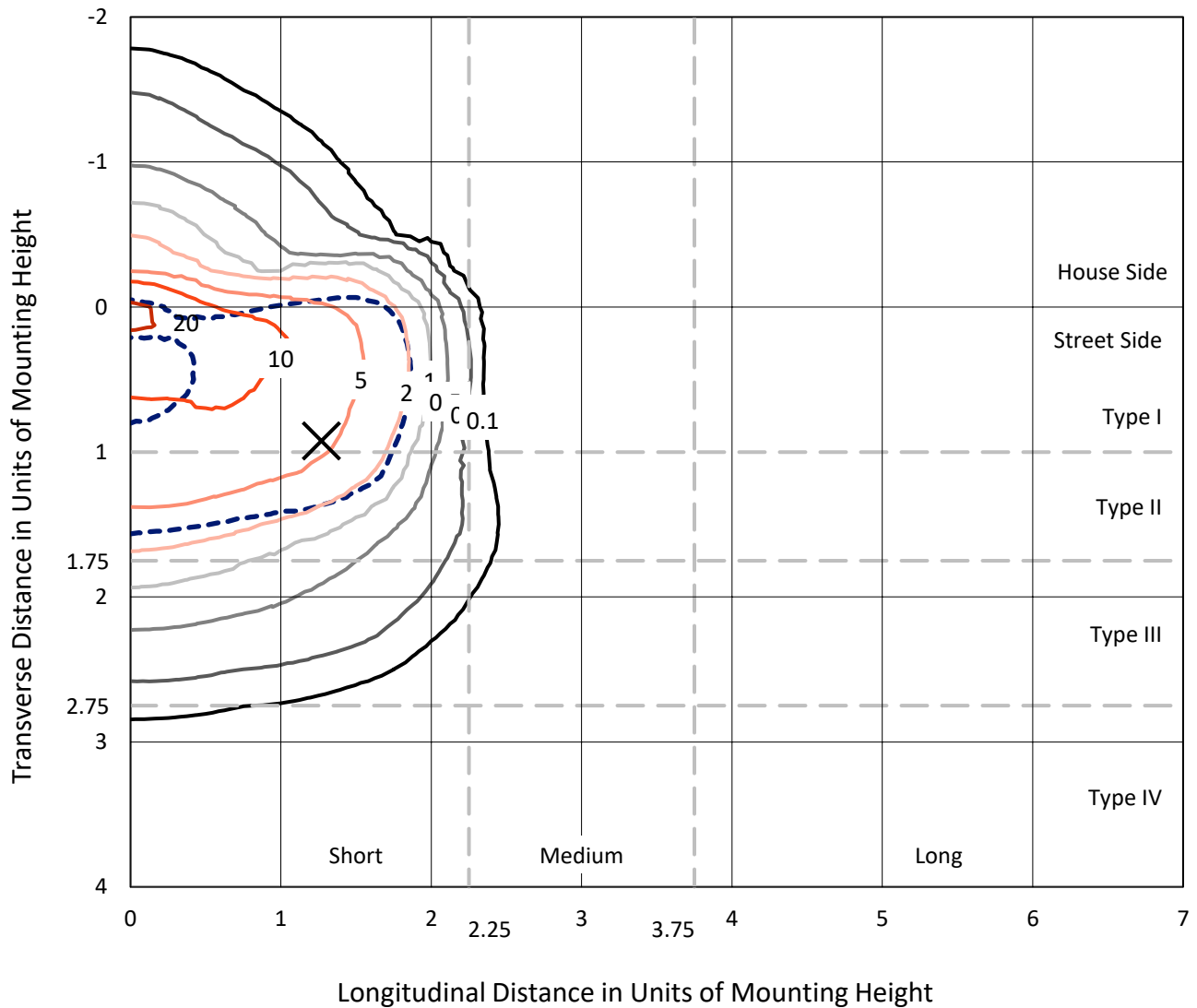
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

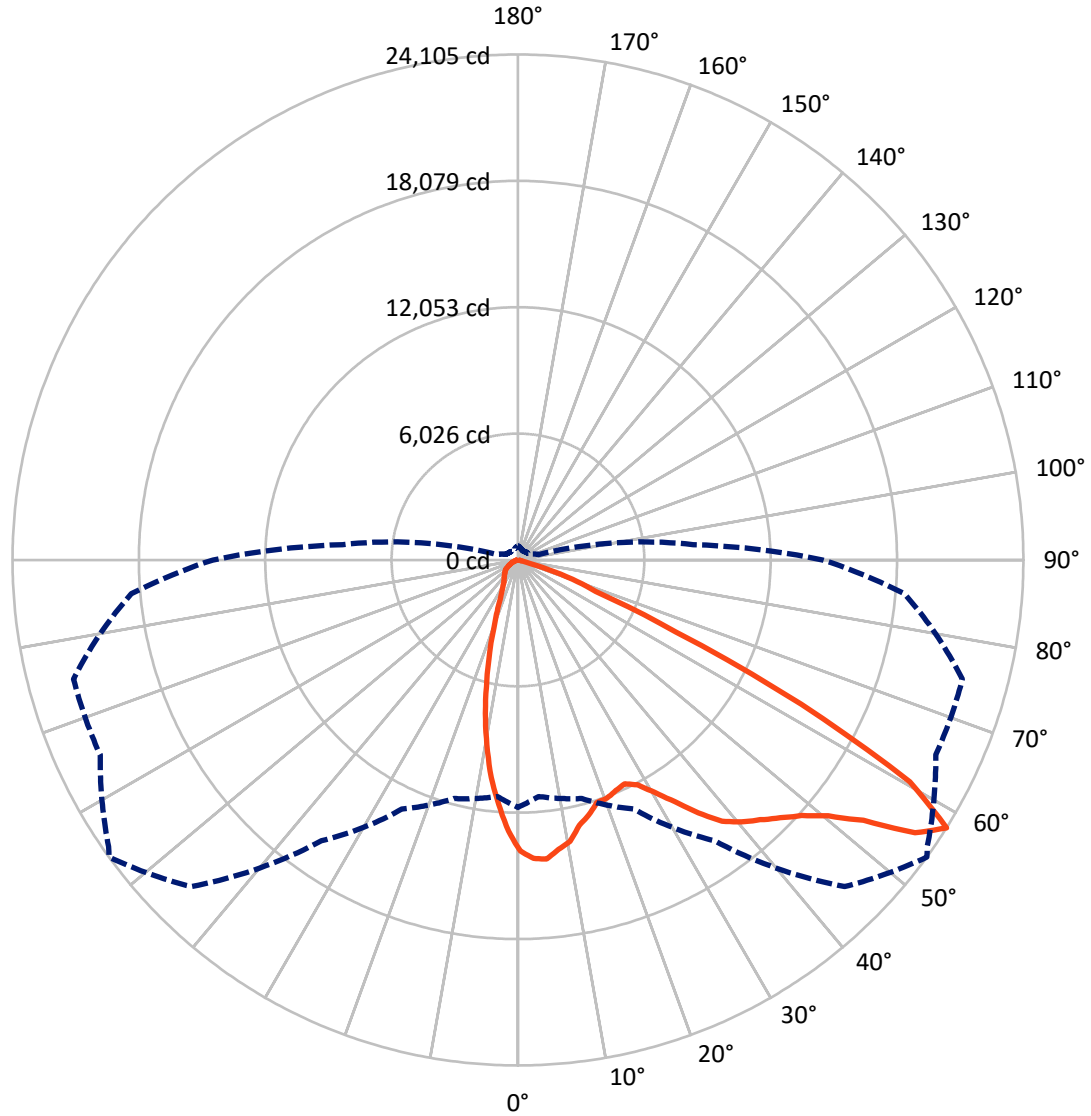
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4452.9	0.0	4452.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	27057.1	0.0	27057.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	31510.0	0.0	31510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1161.6	3.7
10°-20°	2479.9	7.9
20°-30°	3286.4	10.4
30°-40°	4776.0	15.2
40°-50°	7082.2	22.5
50°-60°	8855.9	28.1
60°-70°	3493.3	11.1
70°-80°	347.8	1.1
80°-90°	27.0	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°	31510.0	100.0
0°-180°	31510.0	100.0

Coefficient of Utilization

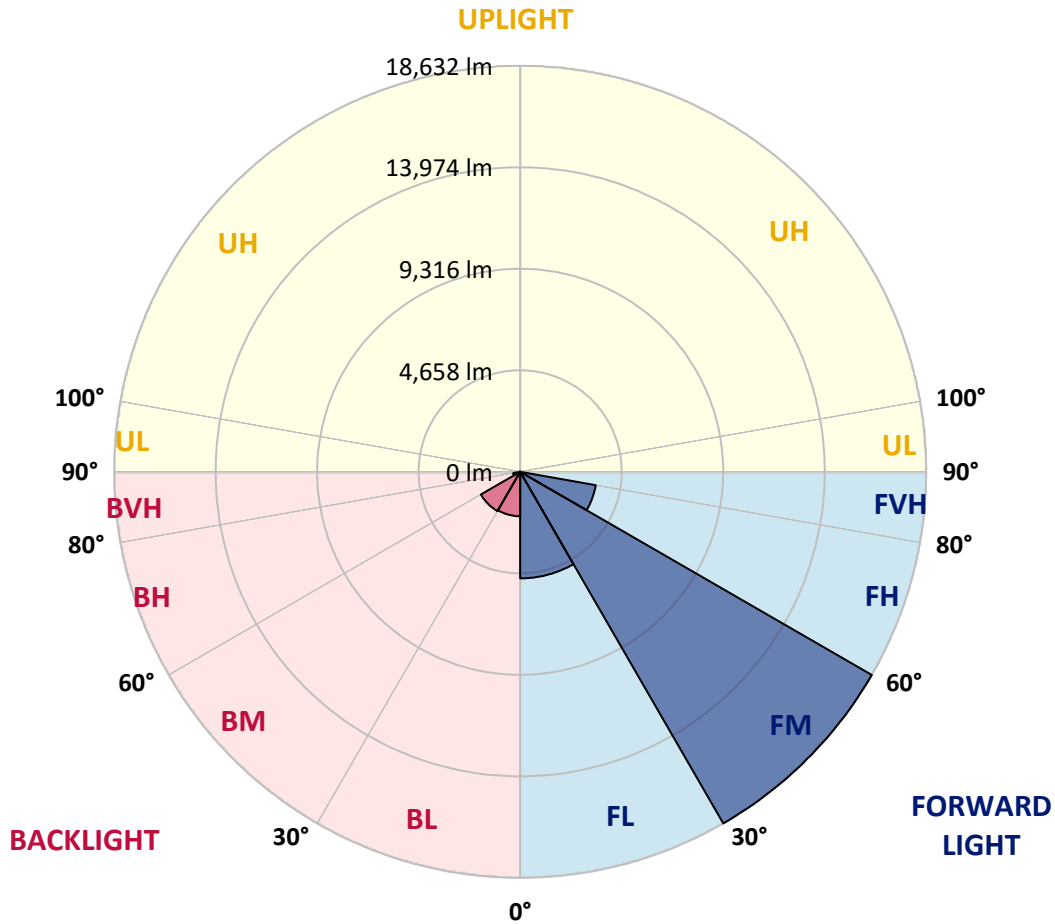


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4891.3	15.5			
FM (30°-60°)	18631.8	59.1			
FH (60°-80°)	3521.8	11.2			G2/5000
FVH (80°-90°)	12.3	0.0			G1/100
BL (0°-30°)	2036.5	6.5	B3/2500		
BM (30°-60°)	2082.3	6.6	B2/2500		
BH (60°-80°)	319.3	1.0	B1/500		G1/500
BVH (80°-90°)	14.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	13880.6	13880.6	13880.6	13880.6	13880.6	13880.6	13880.6	13880.6	13880.6	13880.6	13880.6
2.5°	14689.2	14536.8	14548.5	14495.8	14425.5	14478.2	14249.7	14302.4	14296.6	13986.0	13781.0
5°	14320.0	14484.1	14314.2	14454.8	14320.0	14466.5	14325.9	14220.4	14050.5	13822.0	13441.1
7.5°	13693.1	13534.9	13581.8	13757.5	13786.8	14114.9	13939.2	14073.9	14003.6	13552.5	13031.0
10°	12433.3	12398.2	12632.6	12866.9	13154.0	13505.6	13640.3	13564.2	13511.4	13341.5	12644.3
12.5°	11466.6	11566.2	11560.3	11947.0	12433.3	12632.6	12984.1	12972.4	13265.4	12949.0	12281.0
15°	10546.7	10599.4	10845.5	11085.7	11624.8	12193.1	12626.7	12685.3	13036.8	12814.2	11999.8
17.5°	9984.2	9908.0	10101.4	10388.5	10939.2	11683.4	12163.8	12304.4	12784.9	12738.0	11677.5
20°	9427.5	9427.5	9585.7	9925.6	10429.5	11267.4	12122.8	12081.8	12784.9	12650.1	11331.8
22.5°	9240.0	9333.8	9374.8	9632.6	10230.3	10951.0	11947.0	12023.2	12884.5	12609.1	11179.5
25°	9497.9	9374.8	9386.5	9591.6	10154.1	10798.6	11818.1	11988.0	13066.1	12814.2	11056.4
27.5°	9538.9	9661.9	9697.1	9837.7	10212.7	10845.5	12140.4	12486.1	13517.3	13294.7	11091.6
30°	9896.3	10019.3	10013.5	10253.7	10511.5	11226.3	12861.1	12931.4	14448.9	13898.2	11308.4
32.5°	10329.9	10458.8	10499.8	10781.0	10986.1	11923.6	13740.0	13921.6	15345.4	14847.4	11876.7
35°	10868.9	10822.0	11009.5	11290.8	11730.2	12943.1	14812.2	15116.9	16312.2	16077.8	12462.6
37.5°	11542.7	11484.1	11665.8	12122.8	12720.4	14150.1	15802.4	16001.6	17015.3	17220.4	13546.6
40°	12017.3	12040.8	12591.5	13206.8	13839.6	15298.5	16429.4	16622.7	17507.5	18286.7	14366.9
42.5°	12808.3	12954.8	13616.9	14366.9	15029.0	16159.8	16939.1	17126.6	17736.0	19142.2	15474.3
45°	13956.7	13892.3	14624.7	15462.6	16195.0	17056.3	17542.6	17478.2	17870.7	19991.8	16171.5
47.5°	15433.3	15445.0	15931.3	16646.1	17407.9	17835.6	18216.4	17987.9	18152.0	20888.3	17103.2
50°	16441.1	16529.0	16921.5	17653.9	18034.8	18691.0	19177.3	19036.7	18984.0	21427.3	17689.1
52.5°	16698.9	16962.5	17173.5	18087.5	18978.1	20015.2	20636.3	20935.1	19997.6	21608.9	18433.2
55°	14753.6	14988.0	15732.1	16986.0	19335.5	22112.8	22968.3	22974.1	21321.8	22417.5	18954.7
57.5°	11794.7	11320.1	11777.1	13107.2	16347.3	22024.9	24105.0	23829.6	21983.9	21942.9	18503.5
60°	8156.1	8038.9	8068.2	8595.5	11314.2	17519.2	21480.0	21837.4	20243.7	19019.1	14648.1
62.5°	6462.8	6363.2	6234.2	6175.7	7025.2	10915.8	15152.0	15655.9	14156.0	12333.7	8683.4
65°	5062.4	5003.8	5021.4	5255.8	5249.9	6193.2	8285.0	8079.9	6468.6	4781.2	2730.4
67.5°	3415.9	3503.8	3574.1	4283.1	4646.4	4312.4	4001.9	3884.7	2103.5	884.7	603.5
70°	1921.8	1933.6	2009.7	2677.7	3527.3	3345.6	2759.7	2759.7	1048.8	322.3	345.7
72.5°	1048.8	1013.7	943.3	1154.3	1570.3	1593.7	1230.4	1072.2	310.5	210.9	193.4
75°	509.8	503.9	433.6	357.4	339.8	281.2	216.8	199.2	140.6	134.8	117.2
77.5°	105.5	99.6	52.7	52.7	58.6	64.5	82.0	82.0	99.6	99.6	82.0
80°	0.0	0.0	5.9	23.4	41.0	58.6	70.3	70.3	82.0	82.0	64.5
82.5°	0.0	0.0	5.9	17.6	35.2	52.7	64.5	70.3	82.0	87.9	70.3
85°	0.0	0.0	0.0	11.7	29.3	41.0	35.2	35.2	29.3	23.4	11.7
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13880.6	13880.6	13880.6	13880.6	13880.6	13880.6	13880.6	13880.6	13880.6	13880.6	13880.6
2.5°	13675.5	13663.8	13394.3	13241.9	12966.5	12726.3	12533.0	12392.3	12392.3	12304.4	12222.4
5°	13288.8	13189.2	12615.0	12245.8	11724.4	11337.7	11074.0	10868.9	10546.7	10634.6	10288.9
7.5°	12808.3	12556.4	11794.7	11232.2	10511.5	9960.7	9398.2	8900.2	8419.8	8203.0	8320.1
10°	12292.7	11853.3	10827.9	9937.3	9040.8	8033.0	7376.8	6579.9	6087.8	6058.5	5929.6
12.5°	11747.8	11249.8	10001.8	8771.3	7593.6	6380.7	5378.8	4634.7	4300.7	3931.6	4001.9
15°	11337.7	10599.4	9081.8	7599.5	6035.0	4810.4	3802.7	3228.5	2912.1	2824.2	2794.9
17.5°	10892.4	10101.4	8144.4	6351.4	4734.3	3462.8	2736.3	2460.9	2337.8	2337.8	2320.3
20°	10429.5	9538.9	7212.7	5191.3	3550.7	2583.9	2191.4	2103.5	2097.6	2091.8	2091.8
22.5°	10124.8	8894.4	6369.0	4124.9	2677.7	2068.3	1904.3	1869.1	1892.5	1962.9	1962.9
25°	9802.5	8273.3	5437.4	3181.6	2074.2	1775.4	1681.6	1705.0	1763.6	1828.1	1804.7
27.5°	9474.4	7869.0	4558.5	2496.0	1699.2	1552.7	1517.5	1570.3	1634.7	1693.3	1675.7
30°	9398.2	7435.4	3726.5	1892.5	1459.0	1353.5	1376.9	1423.8	1488.3	1511.7	1535.1
32.5°	9515.4	7095.6	3052.7	1552.7	1271.5	1242.2	1242.2	1265.6	1306.6	1359.3	1341.8
35°	9849.4	6902.2	2414.0	1347.6	1166.0	1136.7	1130.8	1154.3	1177.7	1195.3	1177.7
37.5°	10359.2	6749.9	1974.6	1195.3	1095.7	1048.8	1037.1	1031.2	1054.7	1060.5	1072.2
40°	11009.5	6831.9	1675.7	1101.5	1025.4	972.6	937.5	937.5	937.5	955.1	960.9
42.5°	11712.7	6943.2	1447.2	1048.8	960.9	896.5	861.3	849.6	861.3	884.7	878.9
45°	12450.9	7160.0	1300.8	966.8	902.3	820.3	773.4	761.7	791.0	837.9	832.0
47.5°	13142.3	7470.6	1189.4	914.0	843.7	767.6	709.0	697.3	750.0	814.4	820.3
50°	13833.7	8009.6	1148.4	873.0	802.7	714.8	662.1	650.4	709.0	791.0	808.6
52.5°	14630.6	8589.7	1119.1	820.3	755.8	673.8	615.2	603.5	668.0	773.4	779.3
55°	15152.0	9081.8	1095.7	726.5	668.0	609.4	562.5	556.6	626.9	720.7	744.1
57.5°	14542.7	8396.3	1013.7	632.8	568.3	539.1	498.0	498.0	556.6	644.5	662.1
60°	11027.1	5525.3	720.7	509.8	480.5	462.9	445.3	445.3	492.2	556.6	562.5
62.5°	6456.9	2976.5	462.9	410.1	410.1	392.6	363.3	363.3	410.1	445.3	451.2
65°	1916.0	955.1	375.0	351.6	345.7	316.4	287.1	281.2	316.4	334.0	328.1
67.5°	550.8	439.4	310.5	293.0	287.1	240.2	222.7	216.8	222.7	210.9	205.1
70°	328.1	298.8	240.2	246.1	216.8	175.8	158.2	152.3	140.6	123.0	111.3
72.5°	181.6	181.6	175.8	187.5	152.3	117.2	99.6	82.0	64.5	52.7	46.9
75°	111.3	117.2	123.0	128.9	99.6	76.2	64.5	41.0	23.4	11.7	11.7
77.5°	76.2	82.0	87.9	93.7	82.0	70.3	52.7	29.3	5.9	0.0	0.0
80°	58.6	64.5	76.2	82.0	87.9	93.7	70.3	29.3	5.9	0.0	0.0
82.5°	64.5	70.3	87.9	82.0	82.0	82.0	64.5	29.3	5.9	0.0	0.0
85°	11.7	17.6	29.3	29.3	41.0	52.7	41.0	11.7	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)