

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: P532913

Luminaire Tested: **GALN-SA8B-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532913
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-SA8B-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA 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: 26871 lumens
Efficiency: N/A
Efficacy: 82.7 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

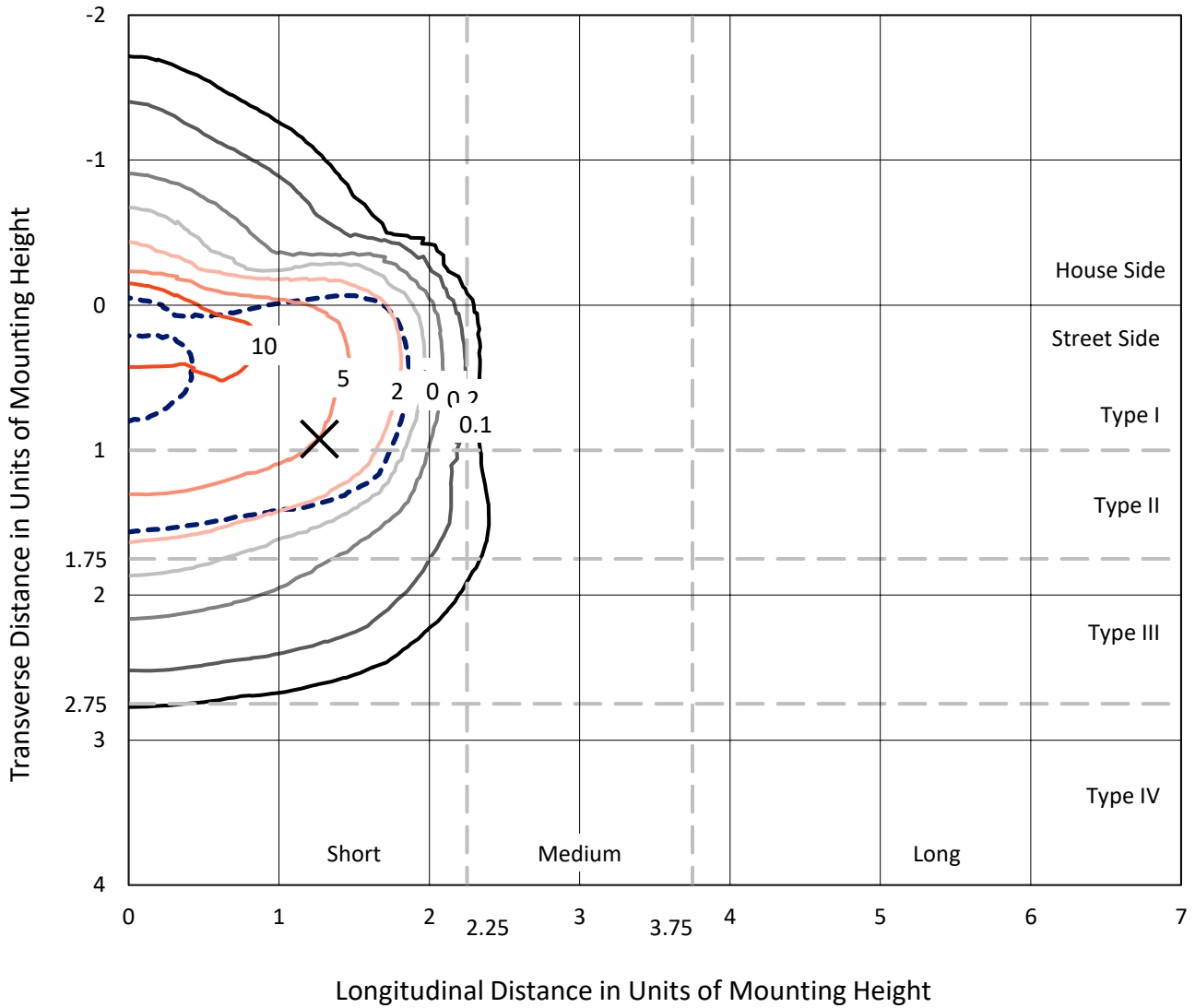
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

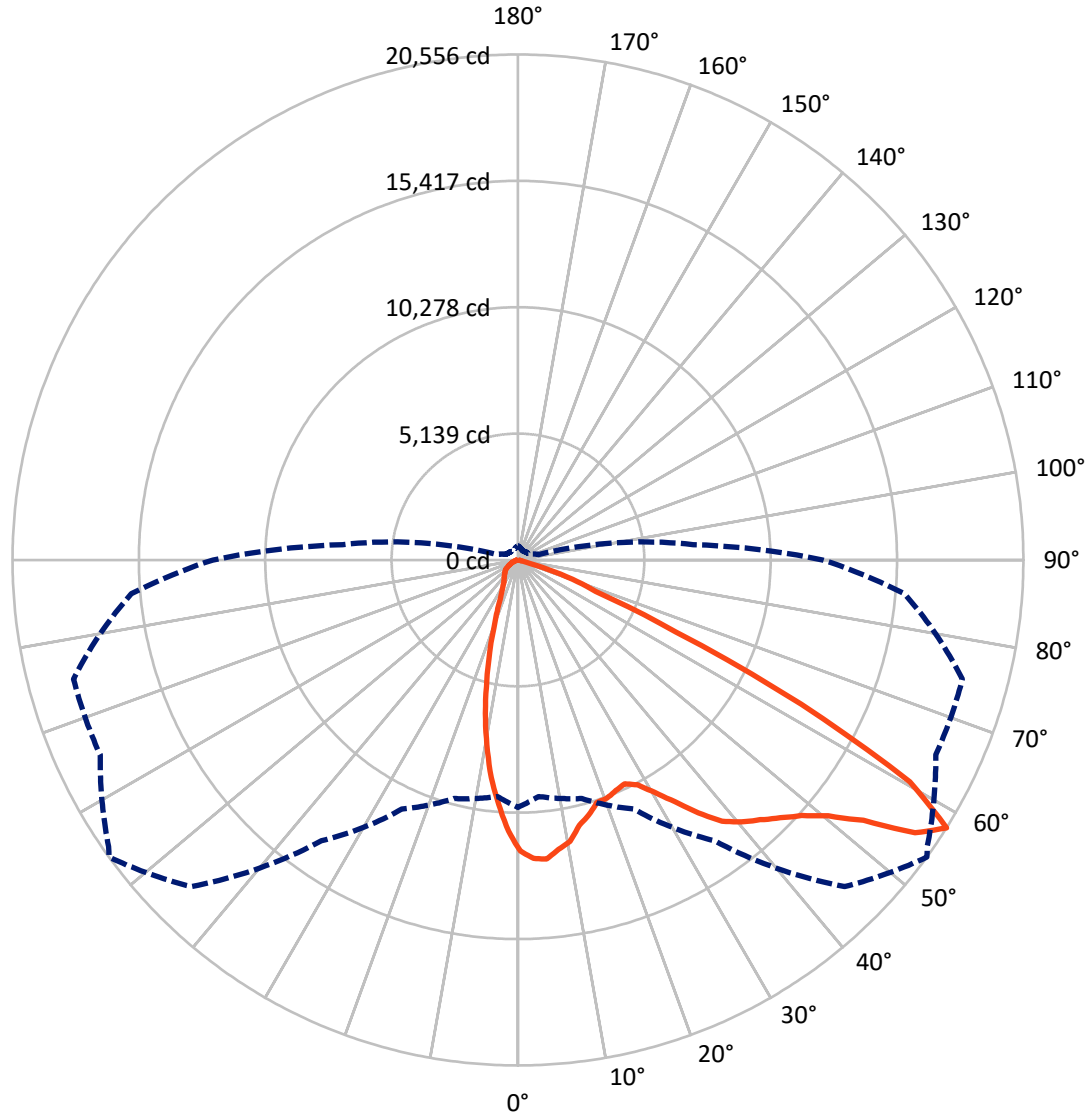
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 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	3797.3	0.0	3797.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	23073.7	0.0	23073.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	26871.0	0.0	26871.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	990.6	3.7
10°-20°	2114.8	7.9
20°-30°	2802.5	10.4
30°-40°	4072.9	15.2
40°-50°	6039.5	22.5
50°-60°	7552.1	28.1
60°-70°	2979.0	11.1
70°-80°	296.6	1.1
80°-90°	23.1	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°	26871.0	100.0
0°-180°	26871.0	100.0

Coefficient of Utilization



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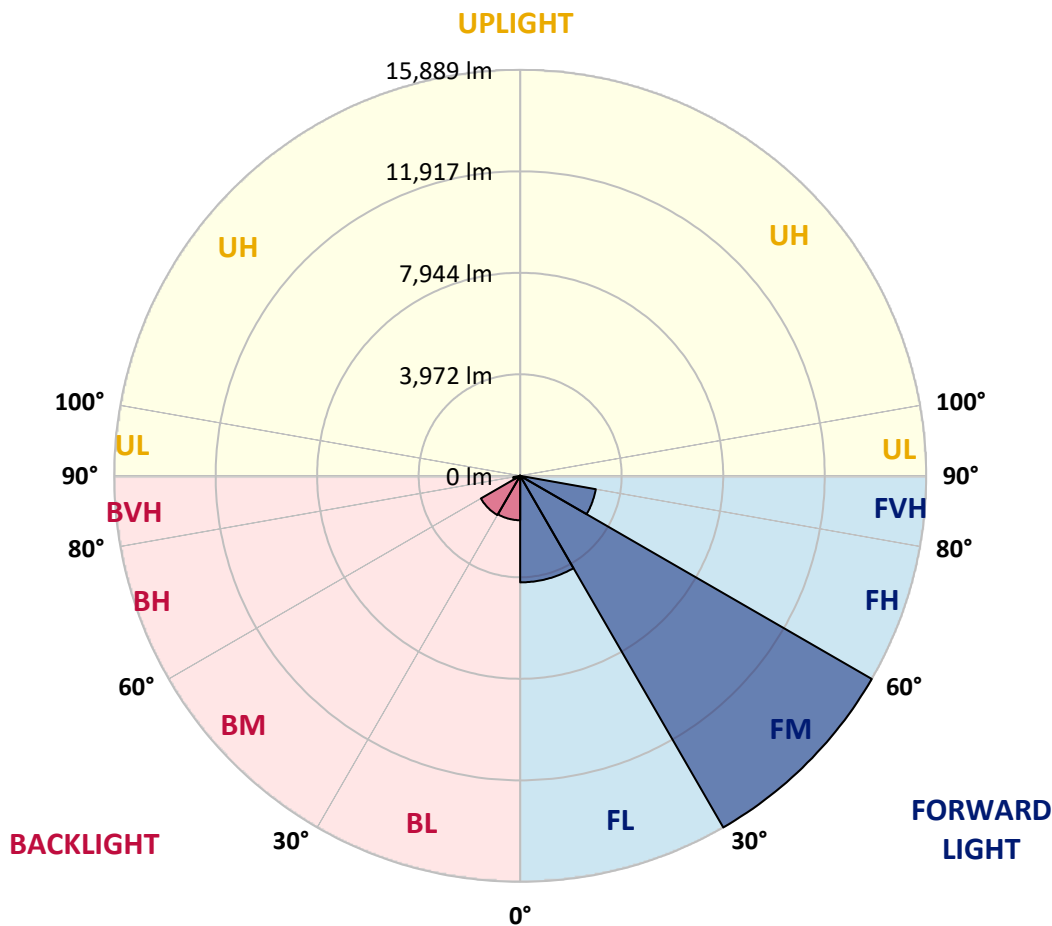
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4171.2	15.5			
FM (30°-60°)	15888.8	59.1			
FH (60°-80°)	3003.3	11.2			G2/5000
FVH (80°-90°)	10.5	0.0			G1/100
BL (0°-30°)	1736.7	6.5	B3/2500		
BM (30°-60°)	1775.7	6.6	B2/2500		
BH (60°-80°)	272.3	1.0	B1/500		G1/500
BVH (80°-90°)	12.6	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°	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0
2.5°	12526.6	12396.7	12406.7	12361.7	12301.7	12346.7	12151.8	12196.8	12191.8	11927.0	11752.1
5°	12211.8	12351.7	12206.8	12326.7	12211.8	12336.7	12216.8	12126.8	11981.9	11787.1	11462.3
7.5°	11677.1	11542.2	11582.2	11732.1	11757.1	12036.9	11887.0	12001.9	11942.0	11557.2	11112.5
10°	10602.9	10572.9	10772.8	10972.6	11217.5	11517.3	11632.2	11567.2	11522.2	11377.3	10782.7
12.5°	9778.4	9863.4	9858.4	10188.1	10602.9	10772.8	11072.6	11062.6	11312.4	11042.6	10473.0
15°	8993.9	9038.9	9248.8	9453.6	9913.3	10398.0	10767.8	10817.7	11117.5	10927.6	10233.1
17.5°	8514.3	8449.3	8614.2	8859.0	9328.7	9963.3	10373.0	10492.9	10902.7	10862.7	9958.3
20°	8039.6	8039.6	8174.5	8464.3	8894.0	9608.5	10338.0	10303.1	10902.7	10787.7	9663.5
22.5°	7879.7	7959.6	7994.6	8214.5	8724.1	9338.7	10188.1	10253.1	10987.6	10752.8	9533.6
25°	8099.6	7994.6	8004.6	8179.5	8659.2	9208.8	10078.2	10223.1	11142.5	10927.6	9428.7
27.5°	8134.5	8239.5	8269.4	8389.4	8709.1	9248.8	10353.0	10647.8	11527.2	11337.4	9458.6
30°	8439.3	8544.3	8539.3	8744.1	8964.0	9573.6	10967.6	11027.6	12321.7	11852.0	9643.5
32.5°	8809.1	8919.0	8954.0	9193.8	9368.7	10168.2	11717.1	11872.0	13086.2	12661.5	10128.2
35°	9268.8	9228.8	9388.7	9628.5	10003.3	11037.6	12631.5	12891.3	13910.6	13710.8	10627.9
37.5°	9843.4	9793.4	9948.3	10338.0	10847.7	12066.9	13475.9	13645.8	14510.2	14685.1	11552.2
40°	10248.1	10268.1	10737.8	11262.4	11802.1	13046.2	14010.6	14175.5	14930.0	15594.5	12251.8
42.5°	10922.7	11047.6	11612.2	12251.8	12816.4	13780.7	14445.3	14605.2	15124.8	16324.0	13196.1
45°	11902.0	11847.0	12471.6	13186.1	13810.7	14545.2	14959.9	14905.0	15239.7	17048.5	13790.7
47.5°	13161.1	13171.1	13585.9	14195.5	14845.0	15209.8	15534.5	15339.7	15479.6	17813.0	14585.2
50°	14020.6	14095.5	14430.3	15054.9	15379.7	15939.3	16354.0	16234.1	16189.1	18272.7	15084.9
52.5°	14240.4	14465.3	14645.1	15424.6	16184.1	17068.5	17598.2	17853.0	17053.5	18427.6	15719.4
55°	12581.5	12781.4	13416.0	14485.3	16488.9	18857.3	19586.8	19591.8	18182.8	19117.1	16164.1
57.5°	10058.2	9653.5	10043.2	11177.5	13940.6	18782.4	20556.2	20321.3	18747.4	18712.4	15779.4
60°	6955.3	6855.4	6880.4	7330.1	9648.5	14939.9	18317.7	18622.5	17263.4	16219.1	12491.6
62.5°	5511.3	5426.3	5316.4	5266.5	5991.0	9308.7	12921.3	13351.0	12071.9	10517.9	7405.0
65°	4317.1	4267.1	4282.1	4482.0	4477.0	5281.4	7065.2	6890.4	5516.3	4077.3	2328.4
67.5°	2913.0	2988.0	3047.9	3652.5	3962.3	3677.5	3412.7	3312.8	1793.8	754.5	514.7
70°	1638.9	1648.9	1713.8	2283.5	3008.0	2853.1	2353.4	2353.4	894.4	274.8	294.8
72.5°	894.4	864.4	804.5	984.3	1339.1	1359.1	1049.3	914.4	264.8	179.9	164.9
75°	434.7	429.7	369.8	304.8	289.8	239.8	184.9	169.9	119.9	114.9	99.9
77.5°	89.9	84.9	45.0	45.0	50.0	55.0	70.0	70.0	84.9	84.9	70.0
80°	0.0	0.0	5.0	20.0	35.0	50.0	60.0	60.0	70.0	70.0	55.0
82.5°	0.0	0.0	5.0	15.0	30.0	45.0	55.0	60.0	70.0	74.9	60.0
85°	0.0	0.0	0.0	10.0	25.0	35.0	30.0	30.0	25.0	20.0	10.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0	11837.0
2.5°	11662.2	11652.2	11422.3	11292.4	11057.6	10852.7	10687.8	10567.9	10567.9	10492.9	10423.0
5°	11332.4	11247.4	10757.8	10443.0	9998.3	9668.5	9443.6	9268.8	8993.9	9068.9	8774.1
7.5°	10922.7	10707.8	10058.2	9578.6	8964.0	8494.3	8014.6	7589.9	7180.2	6995.3	7095.2
10°	10482.9	10108.2	9233.8	8474.3	7709.8	6850.4	6290.8	5611.2	5191.5	5166.5	5056.6
12.5°	10018.3	9593.5	8529.3	7480.0	6475.6	5441.3	4586.9	3952.3	3667.5	3352.7	3412.7
15°	9668.5	9038.9	7744.8	6480.6	5146.5	4102.2	3242.8	2753.1	2483.3	2408.4	2383.4
17.5°	9288.8	8614.2	6945.3	5416.4	4037.3	2953.0	2333.4	2098.6	1993.7	1993.7	1978.7
20°	8894.0	8134.5	6150.9	4427.0	3028.0	2203.5	1868.7	1793.8	1788.8	1783.8	1783.8
22.5°	8634.2	7584.9	5431.3	3517.6	2283.5	1763.8	1623.9	1593.9	1613.9	1673.9	1673.9
25°	8359.4	7055.3	4636.9	2713.2	1768.8	1514.0	1434.0	1454.0	1504.0	1559.0	1539.0
27.5°	8079.6	6710.5	3887.4	2128.6	1449.0	1324.1	1294.1	1339.1	1394.1	1444.0	1429.0
30°	8014.6	6340.7	3177.9	1613.9	1244.2	1154.2	1174.2	1214.2	1269.1	1289.1	1309.1
32.5°	8114.5	6050.9	2603.2	1324.1	1084.3	1059.3	1059.3	1079.3	1114.3	1159.2	1144.2
35°	8399.3	5886.0	2058.6	1149.2	994.3	969.3	964.4	984.3	1004.3	1019.3	1004.3
37.5°	8834.1	5756.1	1683.9	1019.3	934.4	894.4	884.4	879.4	899.4	904.4	914.4
40°	9388.7	5826.1	1429.0	939.4	874.4	829.4	799.5	799.5	799.5	814.5	819.4
42.5°	9988.3	5921.0	1234.2	894.4	819.4	764.5	734.5	724.5	734.5	754.5	749.5
45°	10617.9	6105.9	1109.3	824.4	769.5	699.5	659.6	649.6	674.5	714.5	709.5
47.5°	11207.5	6370.7	1014.3	779.5	719.5	654.6	604.6	594.6	639.6	694.5	699.5
50°	11797.1	6830.4	979.3	744.5	684.5	609.6	564.6	554.6	604.6	674.5	689.5
52.5°	12476.6	7325.1	954.4	699.5	644.6	574.6	524.6	514.7	569.6	659.6	664.6
55°	12921.3	7744.8	934.4	619.6	569.6	519.7	479.7	474.7	534.6	614.6	634.6
57.5°	12401.7	7160.2	864.4	539.6	484.7	459.7	424.7	424.7	474.7	549.6	564.6
60°	9403.7	4711.8	614.6	434.7	409.7	394.7	379.7	379.7	419.7	474.7	479.7
62.5°	5506.3	2538.3	394.7	349.8	349.8	334.8	309.8	309.8	349.8	379.7	384.7
65°	1633.9	814.5	319.8	299.8	294.8	269.8	244.8	239.8	269.8	284.8	279.8
67.5°	469.7	374.7	264.8	249.8	244.8	204.9	189.9	184.9	189.9	179.9	174.9
70°	279.8	254.8	204.9	209.9	184.9	149.9	134.9	129.9	119.9	104.9	94.9
72.5°	154.9	154.9	149.9	159.9	129.9	99.9	84.9	70.0	55.0	45.0	40.0
75°	94.9	99.9	104.9	109.9	84.9	65.0	55.0	35.0	20.0	10.0	10.0
77.5°	65.0	70.0	74.9	79.9	70.0	60.0	45.0	25.0	5.0	0.0	0.0
80°	50.0	55.0	65.0	70.0	74.9	79.9	60.0	25.0	5.0	0.0	0.0
82.5°	55.0	60.0	74.9	70.0	70.0	70.0	55.0	25.0	5.0	0.0	0.0
85°	10.0	15.0	25.0	25.0	35.0	45.0	35.0	10.0	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)