

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: P532951

Luminaire Tested: **GALN-SA8B-750-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-750-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27944 lumens
Efficiency: N/A
Efficacy: 86.0 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

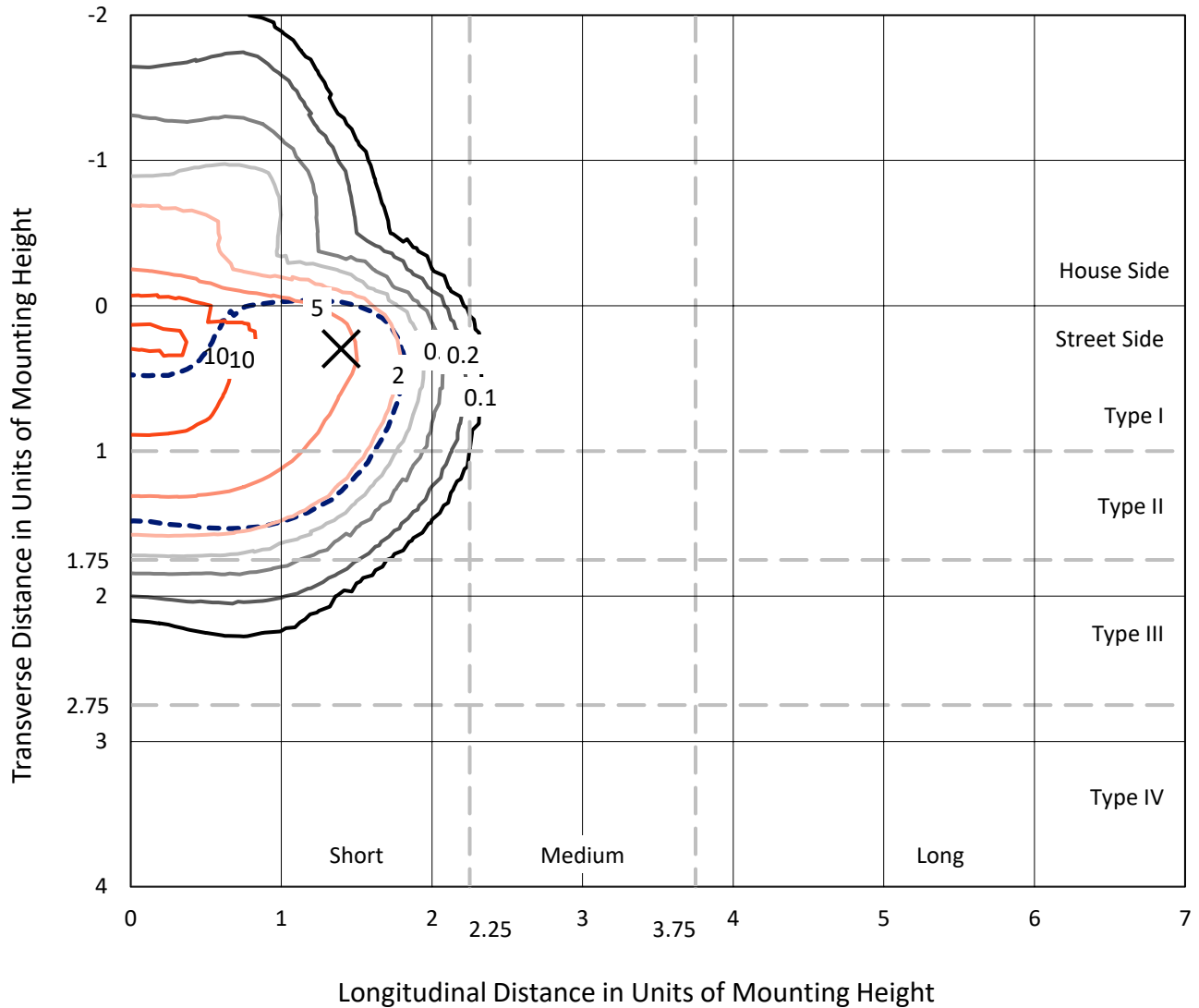
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

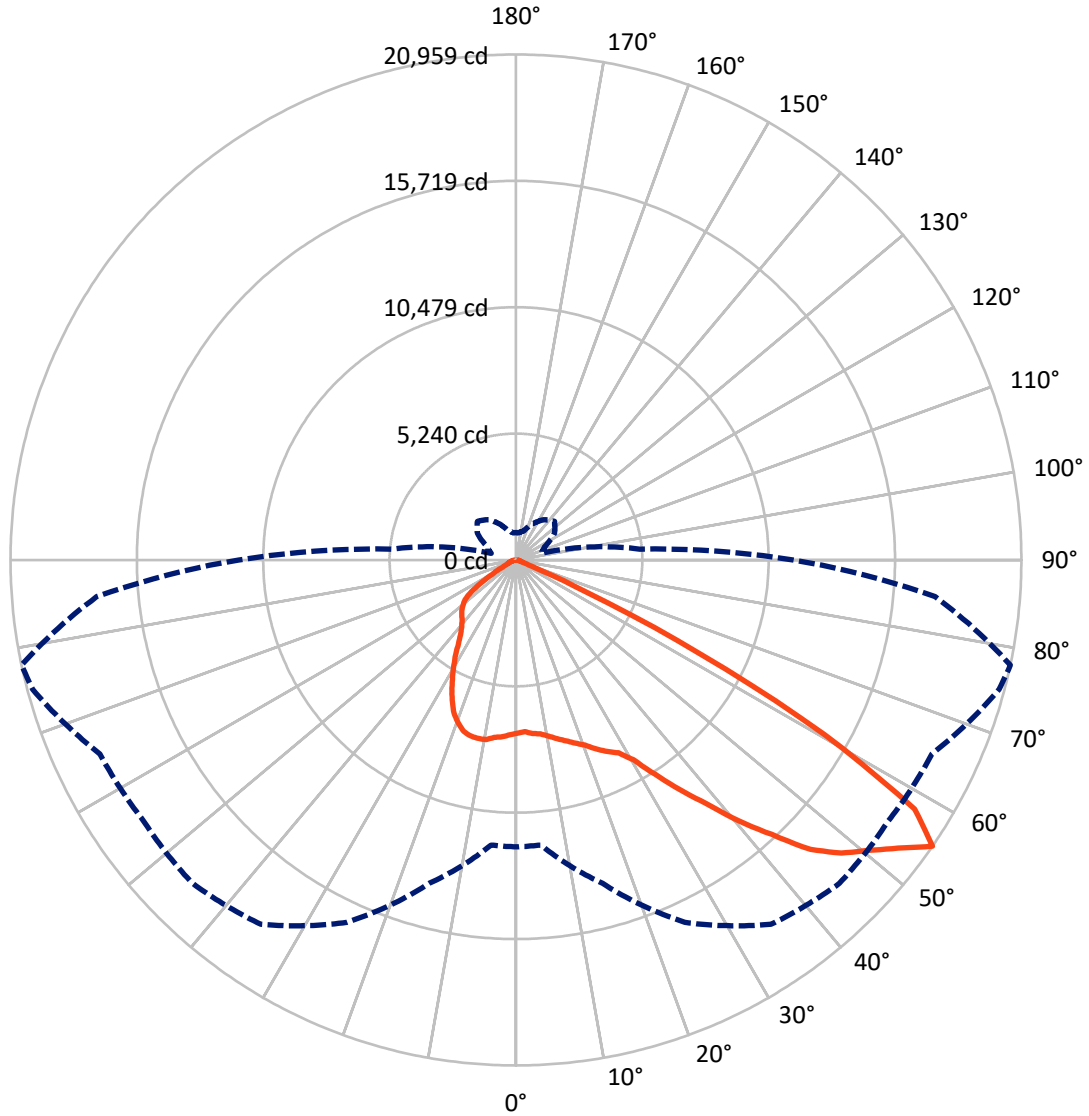
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5190.3	0.0	5190.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	22753.7	0.0	22753.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	27944.0	0.0	27944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.6	2.3
10°-20°	1695.4	6.1
20°-30°	2971.8	10.6
30°-40°	4900.1	17.5
40°-50°	7130.2	25.5
50°-60°	8079.3	28.9
60°-70°	2310.0	8.3
70°-80°	179.4	0.6
80°-90°	37.3	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°	27944.0	100.0
0°-180°	27944.0	100.0

Coefficient of Utilization



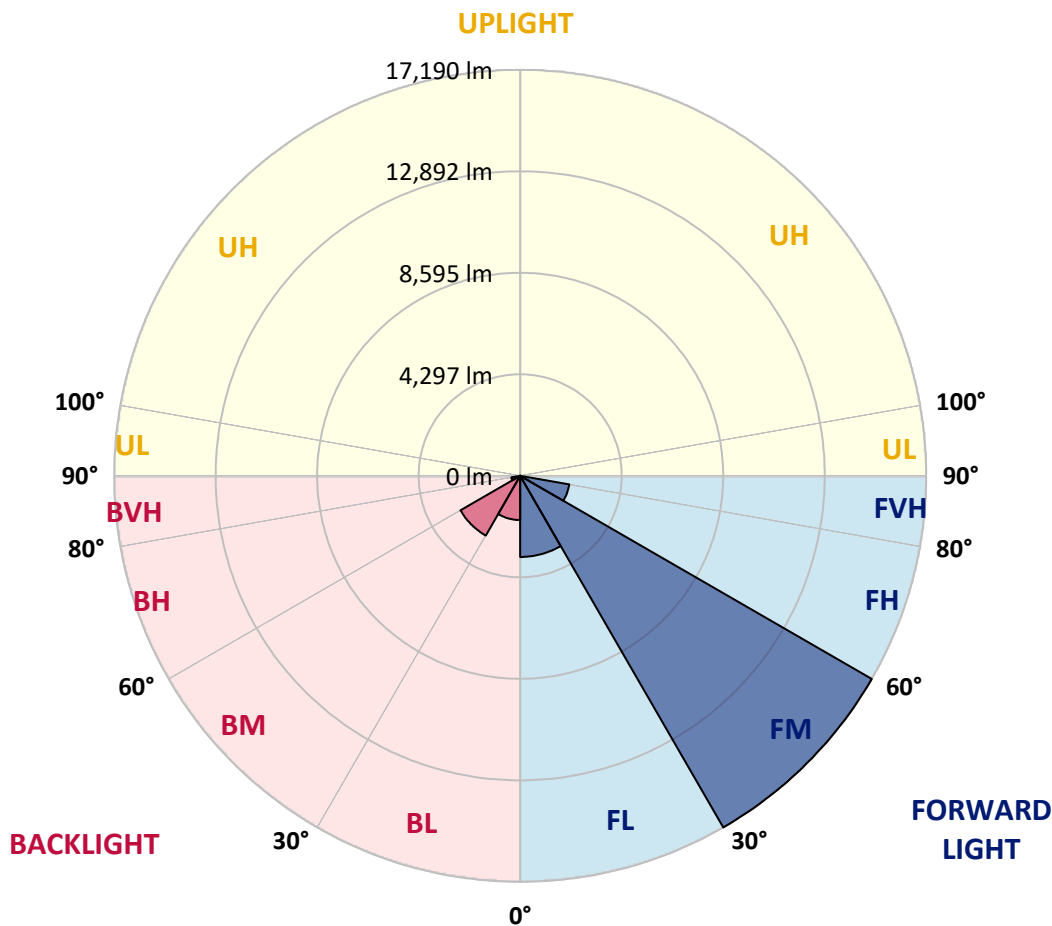
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3435.1	12.3			
FM (30°-60°)	17189.9	61.5			
FH (60°-80°)	2110.5	7.6			G2/5000
FVH (80°-90°)	18.2	0.1			G1/100
BL (0°-30°)	1872.7	6.7	B3/2500		
BM (30°-60°)	2919.6	10.4	B3/5000		
BH (60°-80°)	378.9	1.4	B1/500		G1/500
BVH (80°-90°)	19.1	0.1			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°	55°	65°	75°	78°	85°
0°	7184.4	7184.4	7184.4	7184.4	7184.4	7184.4	7184.4	7184.4	7184.4	7184.4	7184.4
2.5°	6754.8	6819.7	6829.7	6909.6	6904.6	7039.5	7079.5	7084.5	7174.4	7129.5	7244.4
5°	6564.9	6529.9	6514.9	6654.8	6694.8	6814.7	6914.6	6974.6	7159.4	7224.4	7344.3
7.5°	6395.0	6395.0	6405.0	6529.9	6514.9	6669.8	6774.7	6959.6	7229.4	7284.3	7429.2
10°	6230.2	6170.2	6245.1	6375.0	6485.0	6554.9	6774.7	6949.6	7264.4	7424.2	7624.1
12.5°	6145.2	6175.2	6185.2	6280.1	6400.0	6609.9	6729.8	7019.5	7514.2	7609.1	7823.9
15°	6679.8	6619.9	6475.0	6390.0	6490.0	6589.9	6889.6	7184.4	7644.1	7779.0	8018.8
17.5°	7299.3	7249.4	7129.5	6899.6	6674.8	6859.7	7094.5	7364.3	7784.0	7983.8	8338.5
20°	8108.7	8028.8	7908.9	7459.2	7264.4	7064.5	7314.3	7634.1	8013.8	8193.6	8558.4
22.5°	9073.0	9073.0	8803.2	8258.6	7853.9	7664.0	7769.0	7953.8	8268.6	8513.4	8873.1
25°	10077.2	10047.2	9802.4	9237.8	8553.4	8328.5	8448.4	8578.3	8663.3	8798.2	9038.0
27.5°	11226.3	11051.4	10741.7	10117.1	9512.6	9077.9	9207.8	9092.9	8988.0	9058.0	9402.7
30°	12005.7	12115.6	11720.9	11121.4	10551.8	10067.2	10092.2	9992.2	9512.6	9612.5	9817.4
32.5°	12815.0	12885.0	12665.2	12335.4	11765.9	11201.3	10996.5	10911.5	10551.8	10596.8	10396.9
35°	13489.5	13624.4	13429.6	13284.7	13119.8	12665.2	12100.6	12375.4	11795.8	11685.9	11166.3
37.5°	14109.0	14069.1	14298.9	14149.0	14114.0	13794.3	13174.8	13229.7	12840.0	12815.0	12215.5
40°	14663.6	14673.6	14988.4	15058.3	14918.4	14348.9	13449.6	13884.2	14199.0	14228.9	13459.5
42.5°	15123.3	15258.1	15527.9	16092.5	15882.7	14933.4	13734.3	14209.0	15378.1	15562.9	14638.6
45°	15522.9	15797.7	16132.5	16637.1	16517.2	15762.8	14443.8	14878.4	16637.1	17121.7	15747.8
47.5°	15547.9	15907.6	16272.4	17021.8	17171.7	16207.4	15178.2	15937.6	17636.3	18160.9	16557.1
50°	15448.0	15637.9	16367.3	17181.7	17521.4	16931.8	16207.4	16826.9	18605.5	18935.3	16966.8
52.5°	14263.9	14408.8	15872.7	17331.5	18150.9	17751.2	17571.3	18066.0	19594.8	19839.6	17351.5
55°	11890.8	11865.8	13879.2	16577.1	18440.7	18965.3	18855.4	19030.2	20738.9	20958.7	17446.4
57.5°	8133.7	8588.3	10327.0	13804.3	16667.1	18680.5	18795.4	18505.6	19404.9	19489.9	15208.2
60°	4386.6	4576.4	5975.4	9212.8	12690.1	15223.2	15522.9	14998.3	14928.4	14688.6	10856.6
62.5°	1743.6	1838.6	2633.0	4561.5	6914.6	9252.8	9897.3	9682.5	9222.8	8593.3	5620.6
65°	829.4	889.3	1309.0	2133.3	3067.6	3857.0	4501.5	4701.3	3467.3	3122.6	1853.6
67.5°	564.6	609.5	954.3	1219.1	1094.2	1144.1	1488.8	1383.9	814.4	694.5	514.6
70°	429.7	459.6	764.4	829.4	489.6	344.7	384.7	359.7	334.7	339.7	334.7
72.5°	304.8	329.7	559.6	489.6	214.8	159.9	204.8	244.8	244.8	244.8	239.8
75°	184.9	209.8	324.7	189.9	84.9	84.9	129.9	164.9	174.9	179.9	169.9
77.5°	94.9	119.9	109.9	55.0	55.0	64.9	94.9	114.9	124.9	124.9	119.9
80°	20.0	20.0	20.0	30.0	55.0	69.9	94.9	104.9	119.9	119.9	109.9
82.5°	0.0	5.0	15.0	30.0	50.0	64.9	89.9	104.9	119.9	124.9	114.9
85°	0.0	5.0	10.0	20.0	35.0	40.0	35.0	30.0	30.0	30.0	30.0
87.5°	0.0	0.0	5.0	5.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0
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°	7184.4	7184.4	7184.4	7184.4	7184.4	7184.4	7184.4	7184.4	7184.4	7184.4	7184.4
2.5°	7254.4	7269.4	7244.4	7239.4	7219.4	7279.3	7134.5	7099.5	7189.4	7104.5	7124.5
5°	7349.3	7384.3	7339.3	7264.4	7154.4	6984.6	6839.7	6649.8	6559.9	6495.0	6485.0
7.5°	7419.2	7444.2	7399.3	7159.4	6829.7	6400.0	6080.3	5845.5	5660.6	5605.6	5515.7
10°	7704.0	7709.0	7484.2	6954.6	6310.1	5745.5	5255.9	4896.2	4711.3	4596.4	4546.5
12.5°	7893.9	7883.9	7429.2	6549.9	5690.6	4941.2	4381.6	3946.9	3777.1	3722.1	3687.1
15°	8133.7	8078.7	7299.3	6135.2	4891.2	4081.8	3577.2	3277.5	3262.5	3227.5	3262.5
17.5°	8323.5	8168.7	7109.5	5380.8	4126.8	3362.4	3032.6	3052.6	3092.6	3127.6	3132.6
20°	8633.3	8313.5	6674.8	4721.3	3417.3	2882.8	2877.8	2967.7	3067.6	3107.6	3147.6
22.5°	8868.1	8373.5	6210.2	4016.9	2837.8	2687.9	2772.8	2907.7	2982.7	3022.7	3082.6
25°	8953.0	8208.6	5590.7	3312.4	2558.0	2598.0	2727.9	2817.8	2912.7	2957.7	2932.7
27.5°	9038.0	8123.7	4851.2	2727.9	2408.1	2538.0	2647.9	2737.9	2767.8	2827.8	2867.8
30°	9242.8	7828.9	4186.7	2358.2	2333.2	2498.1	2578.0	2608.0	2687.9	2722.9	2722.9
32.5°	9407.7	7714.0	3482.3	2183.3	2323.2	2518.0	2528.0	2528.0	2538.0	2513.0	2503.1
35°	9747.4	7319.3	2852.8	2078.4	2318.2	2523.0	2548.0	2463.1	2233.3	2143.3	2118.4
37.5°	10167.1	7064.5	2388.1	2053.4	2353.2	2583.0	2623.0	2303.2	2003.4	1858.6	1833.6
40°	10676.7	6884.7	2083.4	2043.4	2433.1	2722.9	2603.0	2178.3	1788.6	1578.8	1568.8
42.5°	11271.2	6719.8	1878.5	2038.4	2533.0	2867.8	2583.0	2073.4	1568.8	1428.9	1448.9
45°	11745.9	6629.8	1738.6	2003.4	2568.0	2952.7	2598.0	1888.5	1478.9	1388.9	1398.9
47.5°	12115.6	6440.0	1623.7	1943.5	2563.0	2982.7	2463.1	1813.6	1433.9	1458.9	1483.8
50°	12125.6	6185.2	1478.9	1813.6	2488.1	2927.7	2308.2	1743.6	1423.9	1528.8	1578.8
52.5°	11990.7	5825.5	1324.0	1628.7	2313.2	2737.9	2168.3	1713.7	1378.9	1368.9	1428.9
55°	11511.1	5151.0	1064.2	1319.0	1953.5	2258.2	2043.4	1658.7	1244.0	1129.1	1139.1
57.5°	9302.8	3692.1	784.4	944.3	1383.9	1653.7	1843.6	1633.7	1119.1	959.3	964.3
60°	5760.5	2093.4	574.6	644.5	854.3	1004.2	1493.8	1518.8	999.2	809.4	799.4
62.5°	2957.7	1034.2	444.7	454.6	524.6	589.5	1024.2	1274.0	904.3	769.4	769.4
65°	989.2	509.6	389.7	349.7	349.7	364.7	619.5	884.3	764.4	644.5	644.5
67.5°	424.7	379.7	339.7	304.8	279.8	264.8	349.7	514.6	569.6	489.6	469.6
70°	329.7	319.8	294.8	254.8	219.8	199.8	204.8	264.8	324.7	314.8	304.8
72.5°	244.8	244.8	234.8	199.8	169.9	144.9	134.9	139.9	154.9	159.9	164.9
75°	169.9	174.9	174.9	154.9	124.9	104.9	89.9	74.9	60.0	50.0	45.0
77.5°	114.9	119.9	129.9	114.9	94.9	69.9	55.0	40.0	25.0	10.0	10.0
80°	99.9	114.9	124.9	114.9	99.9	74.9	55.0	30.0	15.0	0.0	0.0
82.5°	104.9	114.9	129.9	109.9	94.9	69.9	55.0	35.0	15.0	5.0	0.0
85°	25.0	25.0	30.0	35.0	45.0	50.0	40.0	25.0	15.0	5.0	0.0
87.5°	10.0	10.0	10.0	10.0	10.0	5.0	5.0	5.0	5.0	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)