

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: P532055

Luminaire Tested: **GALN-SA7B-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532055
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-SA7B-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 17038 lumens
Efficiency: N/A
Efficacy: 59.6 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

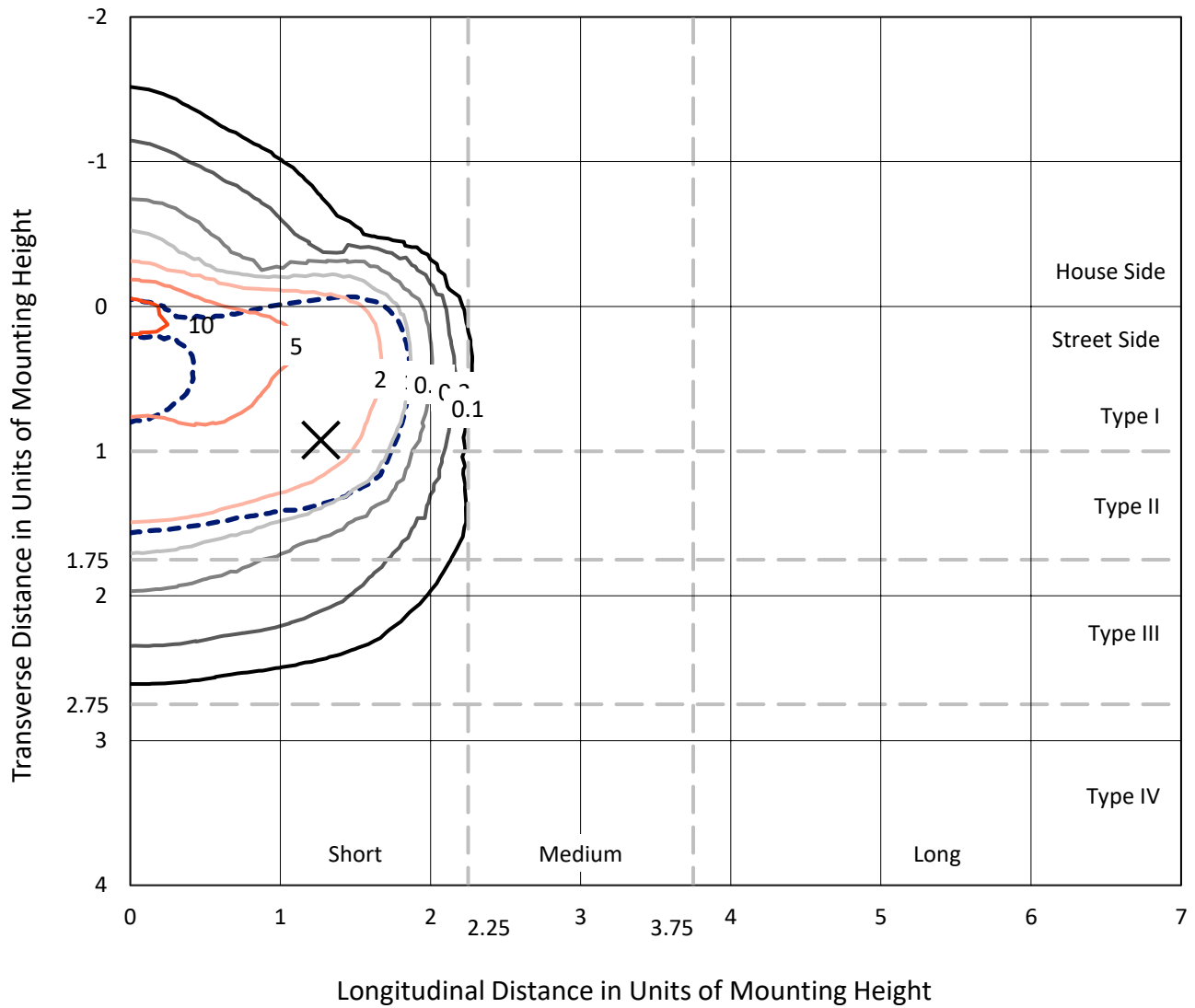
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

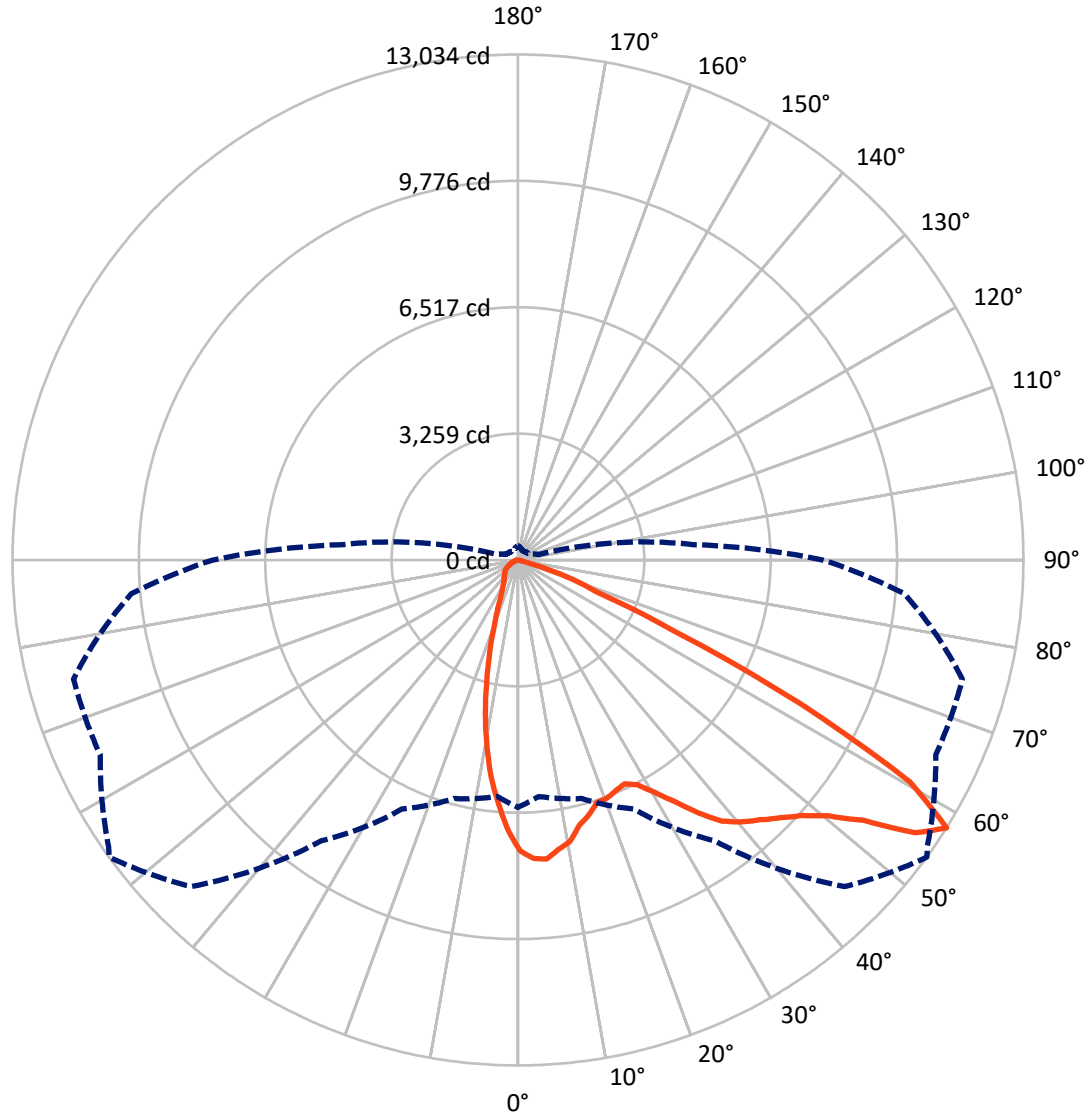
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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	2407.8	0.0	2407.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	14630.3	0.0	14630.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	17038.0	0.0	17038.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.1	3.7
10°-20°	1340.9	7.9
20°-30°	1777.0	10.4
30°-40°	2582.5	15.2
40°-50°	3829.4	22.5
50°-60°	4788.6	28.1
60°-70°	1888.9	11.1
70°-80°	188.1	1.1
80°-90°	14.6	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°	17038.0	100.0
0°-180°	17038.0	100.0

Coefficient of Utilization

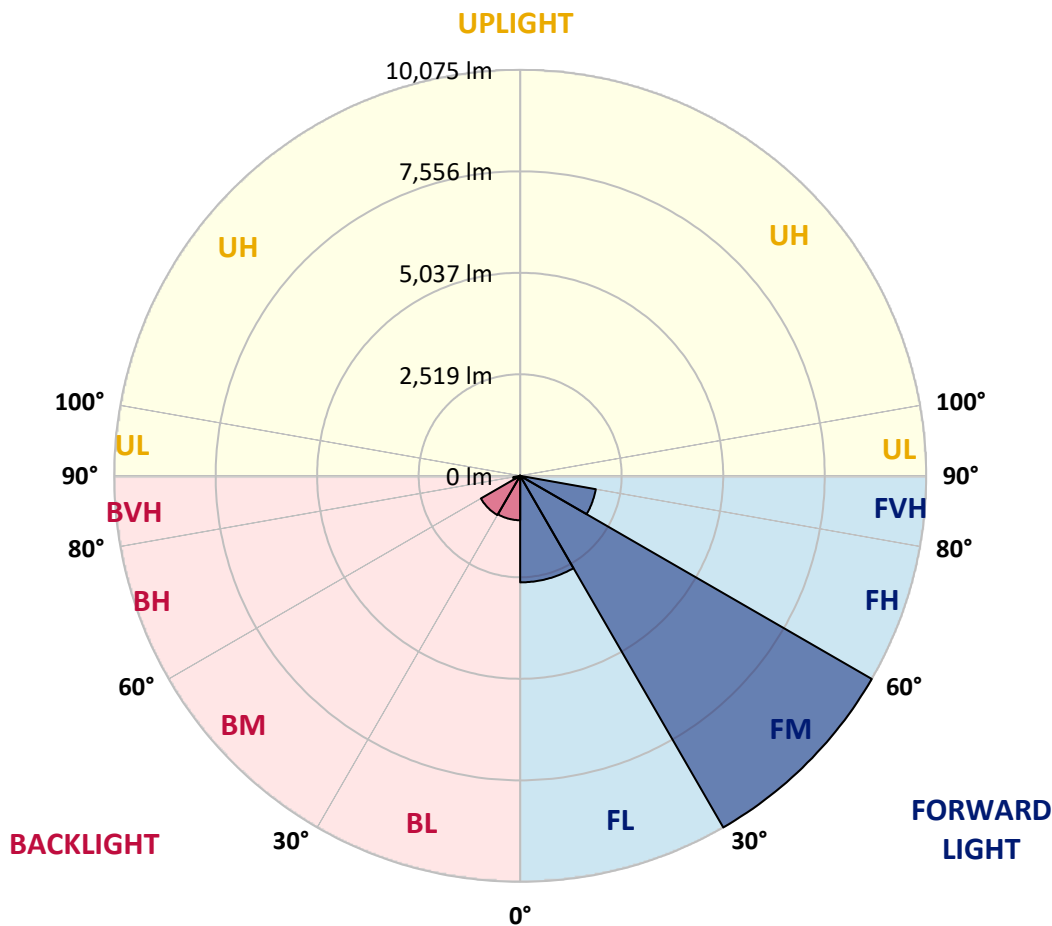


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2644.8	15.5			
FM (30°-60°)	10074.5	59.1			
FH (60°-80°)	1904.3	11.2			G2/5000
FVH (80°-90°)	6.6	0.0			G0/10
BL (0°-30°)	1101.2	6.5	B3/2500		
BM (30°-60°)	1125.9	6.6	B2/2500		
BH (60°-80°)	172.7	1.0	B1/500		G1/500
BVH (80°-90°)	8.0	0.0			G0/10
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°	7505.5	7505.5	7505.5	7505.5	7505.5	7505.5	7505.5	7505.5	7505.5	7505.5	7505.5
2.5°	7942.7	7860.3	7866.6	7838.1	7800.1	7828.6	7705.1	7733.6	7730.4	7562.5	7451.6
5°	7743.1	7831.8	7739.9	7816.0	7743.1	7822.3	7746.3	7689.2	7597.3	7473.8	7267.9
7.5°	7404.1	7318.5	7343.9	7438.9	7454.8	7632.2	7537.2	7610.0	7572.0	7328.0	7046.1
10°	6722.9	6703.9	6830.6	6957.4	7112.6	7302.7	7375.6	7334.4	7305.9	7214.0	6837.0
12.5°	6200.2	6254.0	6250.9	6460.0	6722.9	6830.6	7020.7	7014.4	7172.8	7001.7	6640.5
15°	5702.8	5731.3	5864.3	5994.2	6285.7	6593.0	6827.5	6859.2	7049.2	6928.9	6488.5
17.5°	5398.6	5357.4	5462.0	5617.2	5915.0	6317.4	6577.2	6653.2	6913.0	6887.7	6314.2
20°	5097.6	5097.6	5183.2	5366.9	5639.4	6092.5	6555.0	6532.8	6913.0	6840.1	6127.3
22.5°	4996.3	5046.9	5069.1	5208.5	5531.7	5921.4	6460.0	6501.1	6966.9	6818.0	6044.9
25°	5135.7	5069.1	5075.5	5186.3	5490.5	5839.0	6390.3	6482.1	7065.1	6928.9	5978.4
27.5°	5157.8	5224.4	5243.4	5319.4	5522.2	5864.3	6564.5	6751.4	7309.0	7188.6	5997.4
30°	5351.1	5417.6	5414.5	5544.4	5683.8	6070.3	6954.2	6992.2	7812.8	7515.0	6114.6
32.5°	5585.5	5655.2	5677.4	5829.5	5940.4	6447.3	7429.4	7527.6	8297.5	8028.2	6421.9
35°	5877.0	5851.7	5953.0	6105.1	6342.7	6998.6	8009.2	8174.0	8820.3	8693.5	6738.8
37.5°	6241.4	6209.7	6307.9	6555.0	6878.2	7651.2	8544.6	8652.4	9200.5	9311.3	7324.9
40°	6498.0	6510.7	6808.5	7141.1	7483.3	8272.2	8883.6	8988.2	9466.6	9888.0	7768.4
42.5°	6925.7	7004.9	7362.9	7768.4	8126.4	8737.9	9159.3	9260.7	9590.1	10350.5	8367.2
45°	7546.7	7511.8	7907.8	8360.9	8756.9	9222.6	9485.6	9450.7	9663.0	10809.9	8744.2
47.5°	8345.0	8351.4	8614.3	9000.9	9412.7	9644.0	9849.9	9726.4	9815.1	11294.6	9248.0
50°	8890.0	8937.5	9149.8	9545.8	9751.7	10106.6	10369.5	10293.5	10265.0	11586.1	9564.8
52.5°	9029.4	9171.9	9286.0	9780.2	10261.8	10822.6	11158.4	11320.0	10813.1	11684.3	9967.2
55°	7977.5	8104.3	8506.6	9184.6	10455.1	11956.8	12419.3	12422.5	11529.1	12121.5	10249.1
57.5°	6377.6	6121.0	6368.1	7087.3	8839.3	11909.3	13034.0	12885.1	11887.1	11864.9	10005.2
60°	4410.1	4346.8	4362.6	4647.8	6117.8	9472.9	11614.6	11807.9	10946.1	10284.0	7920.5
62.5°	3494.5	3440.7	3371.0	3339.3	3798.7	5902.4	8193.0	8465.4	7654.4	6669.1	4695.3
65°	2737.3	2705.6	2715.1	2841.9	2838.7	3348.8	4479.8	4368.9	3497.7	2585.3	1476.4
67.5°	1847.1	1894.6	1932.6	2316.0	2512.4	2331.8	2163.9	2100.5	1137.4	478.4	326.3
70°	1039.2	1045.5	1086.7	1447.9	1907.3	1809.0	1492.2	1492.2	567.1	174.3	186.9
72.5°	567.1	548.1	510.1	624.1	849.1	861.8	665.3	579.8	167.9	114.1	104.6
75°	275.6	272.5	234.4	193.3	183.8	152.1	117.2	107.7	76.0	72.9	63.4
77.5°	57.0	53.9	28.5	28.5	31.7	34.9	44.4	44.4	53.9	53.9	44.4
80°	0.0	0.0	3.2	12.7	22.2	31.7	38.0	38.0	44.4	44.4	34.9
82.5°	0.0	0.0	3.2	9.5	19.0	28.5	34.9	38.0	44.4	47.5	38.0
85°	0.0	0.0	0.0	6.3	15.8	22.2	19.0	19.0	15.8	12.7	6.3
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°	7505.5	7505.5	7505.5	7505.5	7505.5	7505.5	7505.5	7505.5	7505.5	7505.5	7505.5
2.5°	7394.6	7388.2	7242.5	7160.1	7011.2	6881.3	6776.8	6700.7	6700.7	6653.2	6608.9
5°	7185.5	7131.6	6821.1	6621.5	6339.6	6130.5	5987.9	5877.0	5702.8	5750.3	5563.4
7.5°	6925.7	6789.5	6377.6	6073.4	5683.8	5385.9	5081.8	4812.5	4552.7	4435.5	4498.8
10°	6646.9	6409.3	5854.8	5373.3	4888.5	4343.6	3988.8	3557.9	3291.8	3275.9	3206.2
12.5°	6352.2	6082.9	5408.1	4742.8	4106.0	3450.2	2908.4	2506.0	2325.5	2125.9	2163.9
15°	6130.5	5731.3	4910.7	4109.2	3263.2	2601.1	2056.2	1745.7	1574.6	1527.1	1511.2
17.5°	5889.7	5462.0	4403.8	3434.3	2559.9	1872.4	1479.5	1330.6	1264.1	1264.1	1254.6
20°	5639.4	5157.8	3900.1	2807.0	1919.9	1397.2	1184.9	1137.4	1134.2	1131.0	1131.0
22.5°	5474.7	4809.3	3443.8	2230.4	1447.9	1118.4	1029.7	1010.7	1023.3	1061.3	1061.3
25°	5300.4	4473.5	2940.1	1720.3	1121.5	960.0	909.3	921.9	953.6	988.5	975.8
27.5°	5123.0	4254.9	2464.9	1349.7	918.8	839.6	820.6	849.1	883.9	915.6	906.1
30°	5081.8	4020.4	2015.0	1023.3	788.9	731.9	744.5	769.9	804.7	817.4	830.1
32.5°	5145.2	3836.7	1650.6	839.6	687.5	671.7	671.7	684.3	706.5	735.0	725.5
35°	5325.7	3732.1	1305.3	728.7	630.5	614.6	611.5	624.1	636.8	646.3	636.8
37.5°	5601.4	3649.8	1067.7	646.3	592.5	567.1	560.8	557.6	570.3	573.4	579.8
40°	5953.0	3694.1	906.1	595.6	554.4	525.9	506.9	506.9	506.9	516.4	519.6
42.5°	6333.2	3754.3	782.5	567.1	519.6	484.7	465.7	459.4	465.7	478.4	475.2
45°	6732.4	3871.5	703.3	522.8	487.9	443.5	418.2	411.9	427.7	453.1	449.9
47.5°	7106.3	4039.5	643.1	494.2	456.2	415.0	383.4	377.0	405.5	440.4	443.5
50°	7480.1	4330.9	621.0	472.1	434.0	386.5	358.0	351.7	383.4	427.7	437.2
52.5°	7911.0	4644.6	605.1	443.5	408.7	364.3	332.7	326.3	361.2	418.2	421.4
55°	8193.0	4910.7	592.5	392.9	361.2	329.5	304.1	301.0	339.0	389.7	402.4
57.5°	7863.5	4540.0	548.1	342.2	307.3	291.5	269.3	269.3	301.0	348.5	358.0
60°	5962.6	2987.6	389.7	275.6	259.8	250.3	240.8	240.8	266.1	301.0	304.1
62.5°	3491.4	1609.4	250.3	221.8	221.8	212.3	196.4	196.4	221.8	240.8	244.0
65°	1036.0	516.4	202.8	190.1	186.9	171.1	155.2	152.1	171.1	180.6	177.4
67.5°	297.8	237.6	167.9	158.4	155.2	129.9	120.4	117.2	120.4	114.1	110.9
70°	177.4	161.6	129.9	133.1	117.2	95.0	85.5	82.4	76.0	66.5	60.2
72.5°	98.2	98.2	95.0	101.4	82.4	63.4	53.9	44.4	34.9	28.5	25.3
75°	60.2	63.4	66.5	69.7	53.9	41.2	34.9	22.2	12.7	6.3	6.3
77.5°	41.2	44.4	47.5	50.7	44.4	38.0	28.5	15.8	3.2	0.0	0.0
80°	31.7	34.9	41.2	44.4	47.5	50.7	38.0	15.8	3.2	0.0	0.0
82.5°	34.9	38.0	47.5	44.4	44.4	44.4	34.9	15.8	3.2	0.0	0.0
85°	6.3	9.5	15.8	15.8	22.2	28.5	22.2	6.3	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)