

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: P451367

Luminaire Tested: **GALN-SA2B-727-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7154 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

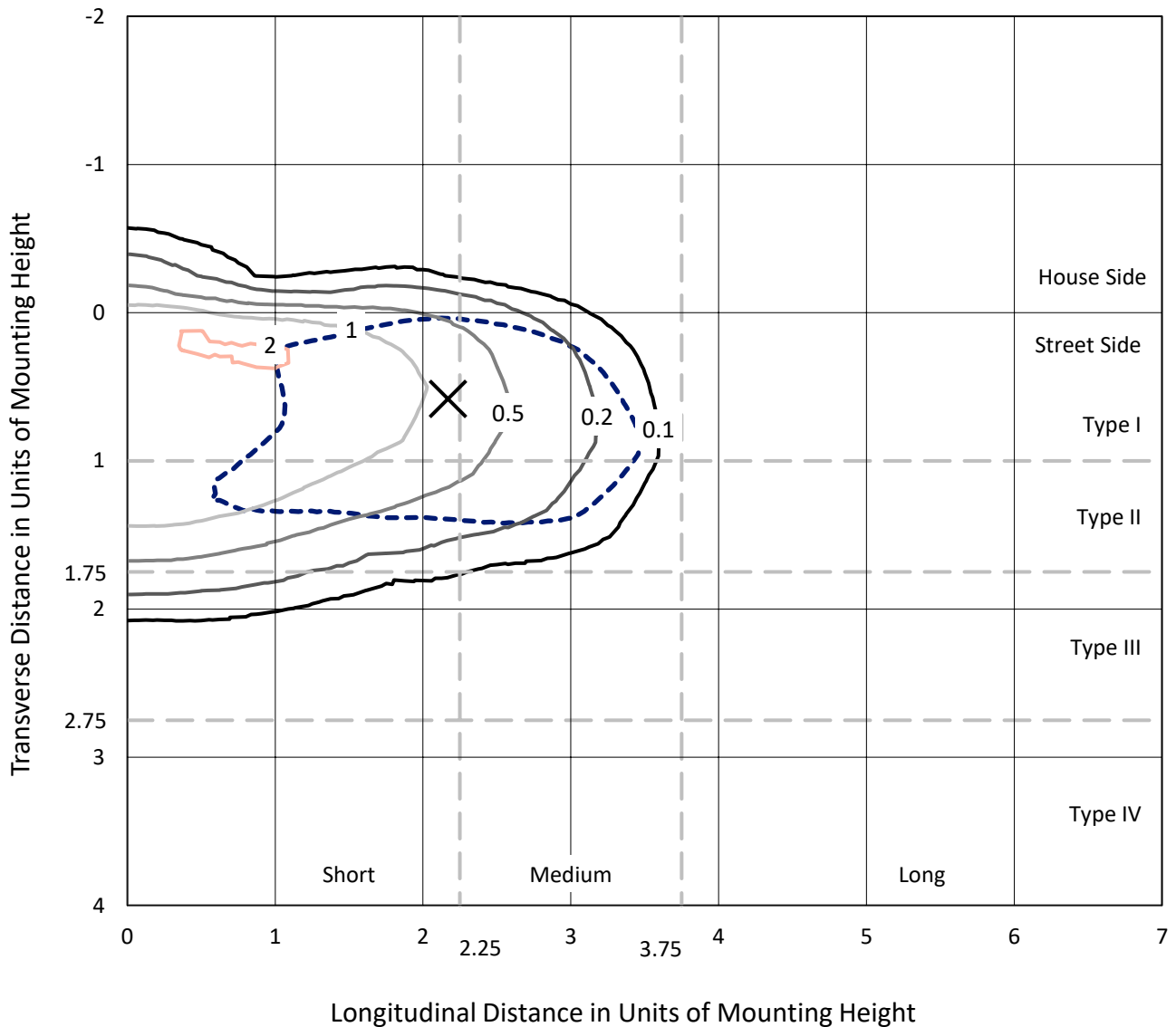
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

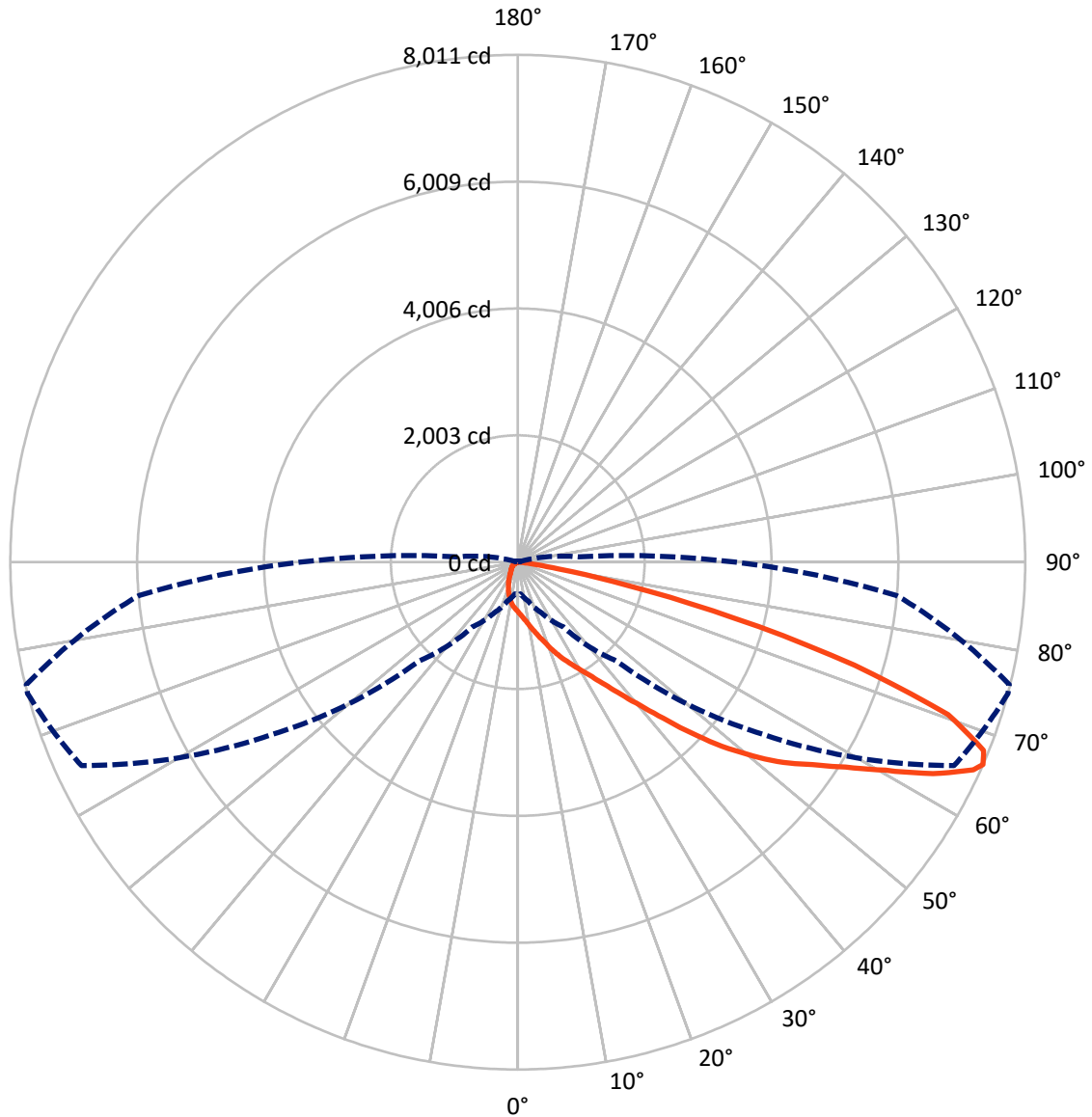
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	441.7	0.0	441.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	6712.3	0.0	6712.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	7154.0	0.0	7154.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	1.1
10°-20°	222.1	3.1
20°-30°	383.5	5.4
30°-40°	691.7	9.7
40°-50°	1249.6	17.5
50°-60°	1948.2	27.2
60°-70°	1850.7	25.9
70°-80°	693.6	9.7
80°-90°	39.1	0.5
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°	7154.0	100.0
0°-180°	7154.0	100.0



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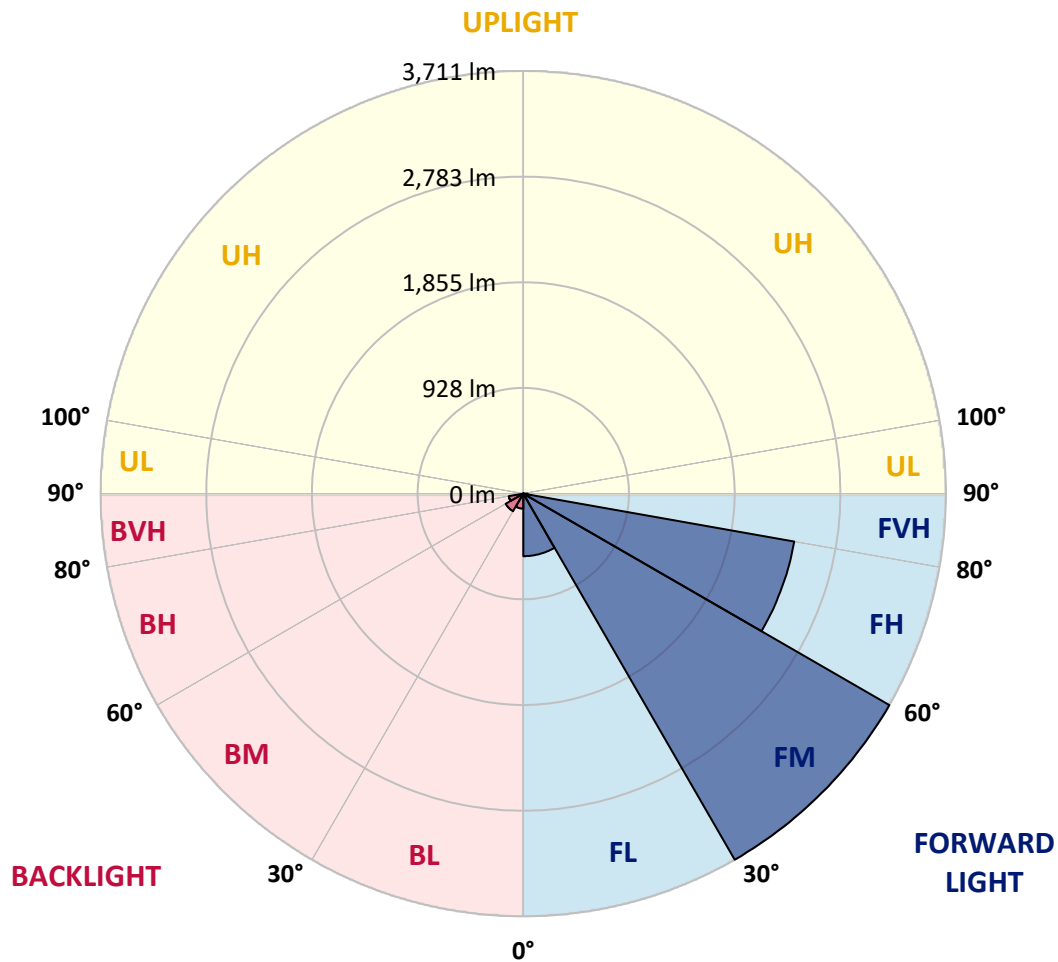
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	549.1	7.7			
FM (30°-60°)	3710.8	51.9			
FH (60°-80°)	2415.3	33.8			G2/5000
FVH (80°-90°)	37.1	0.5			G1/100
BL (0°-30°)	131.9	1.8	B1/500		
BM (30°-60°)	178.8	2.5	B0/220		
BH (60°-80°)	129.0	1.8	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	782.4	782.4	782.4	782.4	782.4	782.4	782.4	782.4	782.4	782.4	782.4
2.5°	934.7	923.1	926.8	921.5	909.3	891.3	875.5	852.7	830.0	826.3	800.9
5°	1058.0	1054.8	1050.6	1035.2	1026.7	999.2	966.4	927.3	880.2	871.8	825.7
7.5°	1142.1	1140.5	1142.6	1134.7	1127.3	1102.4	1067.5	1014.1	941.1	936.3	859.6
10°	1169.6	1173.8	1181.7	1194.4	1206.1	1198.1	1171.7	1105.0	1019.9	1006.1	898.2
12.5°	1153.7	1158.5	1177.5	1211.4	1248.9	1270.6	1260.0	1211.4	1103.5	1092.3	941.6
15°	1113.0	1118.8	1145.8	1198.1	1265.3	1326.7	1353.1	1318.2	1200.8	1182.8	994.0
17.5°	1052.7	1061.1	1099.7	1169.0	1261.1	1366.9	1441.5	1429.8	1304.5	1287.5	1051.1
20°	1007.2	1013.5	1046.3	1125.7	1243.1	1389.1	1525.6	1558.4	1432.5	1403.4	1118.3
22.5°	1037.3	1039.4	1050.6	1098.2	1210.8	1394.9	1599.6	1692.2	1568.4	1542.5	1188.1
25°	1184.9	1163.8	1152.6	1142.1	1204.0	1389.6	1666.8	1831.9	1703.8	1676.3	1257.4
27.5°	1417.7	1408.1	1352.1	1277.0	1262.7	1396.5	1711.2	1964.1	1831.3	1801.7	1325.1
30°	1671.0	1654.6	1620.3	1510.2	1399.7	1445.2	1743.5	2092.6	1982.1	1942.9	1387.0
32.5°	1903.8	1914.4	1863.1	1749.9	1621.9	1548.9	1785.3	2232.8	2155.1	2106.4	1458.9
35°	2175.2	2196.3	2117.5	2009.1	1859.4	1736.1	1866.8	2391.0	2374.6	2313.2	1570.0
37.5°	2450.8	2463.5	2415.3	2263.0	2128.1	1974.2	2020.2	2586.2	2644.9	2592.5	1702.8
40°	2682.5	2699.9	2664.5	2529.1	2385.2	2249.7	2242.9	2798.8	2966.5	2912.6	1900.6
42.5°	2859.7	2872.9	2873.9	2778.2	2648.6	2587.2	2526.9	3070.2	3369.6	3307.2	2130.2
45°	3083.4	3102.5	3091.4	3026.3	2929.5	2918.4	2887.2	3398.2	3852.0	3773.2	2428.0
47.5°	3429.4	3442.1	3414.6	3337.9	3239.5	3256.9	3238.4	3765.8	4344.0	4276.3	2736.4
50°	3669.5	3690.7	3729.8	3760.5	3689.1	3624.6	3569.6	4109.1	4811.1	4750.2	3051.7
52.5°	3666.9	3701.8	3825.6	3980.0	4136.1	4116.5	3958.4	4488.4	5257.0	5181.9	3347.9
55°	3419.9	3487.6	3669.5	3943.5	4375.7	4591.0	4519.1	4927.4	5642.1	5591.3	3691.2
57.5°	2909.9	2951.2	3204.0	3587.0	4241.9	4814.2	5168.7	5522.5	6103.9	6080.1	4224.4
60°	1957.2	1975.7	2301.1	2774.5	3611.3	4591.5	5644.7	6242.5	6672.5	6660.9	4847.0
62.5°	1121.4	1129.4	1365.3	1764.7	2569.8	3891.2	5684.9	7130.6	7354.4	7360.7	5567.5
65°	603.6	607.8	798.2	1035.7	1563.7	2773.4	5112.1	7617.3	7905.6	7917.8	6014.0
66°	521.0	500.9	635.3	882.9	1244.2	2207.4	4749.7	7599.8	8011.4	7998.2	5998.1
67.5°	396.2	414.2	507.3	678.7	922.0	1569.5	3921.3	7261.8	7931.0	7889.7	5754.2
70°	283.5	290.9	361.3	484.0	627.9	861.2	2505.8	6031.4	7208.4	7152.9	5013.1
72.5°	183.0	191.0	256.0	350.2	453.9	470.3	1402.9	4357.7	5557.5	5549.5	3775.3
75°	130.7	138.1	169.3	250.7	341.2	290.9	675.5	2936.9	3533.1	3509.2	2335.4
77.5°	94.7	98.4	113.2	164.0	243.9	208.4	313.2	1568.4	1758.9	1841.9	1032.0
80°	54.5	57.7	78.8	100.0	165.0	142.3	149.7	629.5	649.1	617.8	322.7
82.5°	27.0	30.7	47.1	68.2	103.2	95.7	68.8	189.4	200.0	194.7	81.5
85°	6.3	7.9	26.4	45.0	50.3	42.8	33.3	55.5	68.8	67.2	31.2
87.5°	0.5	1.1	9.5	7.9	8.5	14.3	11.6	14.3	22.2	20.6	11.1
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°	782.4	782.4	782.4	782.4	782.4	782.4	782.4	782.4	782.4	782.4	782.4
2.5°	789.2	779.2	750.1	721.5	697.7	672.9	650.1	636.9	631.6	625.8	628.4
5°	800.3	776.0	717.3	666.5	616.8	574.5	540.6	518.9	508.3	506.8	504.1
7.5°	815.2	773.4	682.4	603.0	538.0	490.9	452.3	421.1	411.5	403.1	396.2
10°	833.1	768.6	639.0	536.4	467.1	407.8	357.1	320.0	301.0	295.7	299.4
12.5°	852.2	759.6	593.5	475.0	395.1	319.5	272.4	253.9	248.6	246.5	247.0
15°	871.2	748.5	545.9	415.8	314.7	255.0	233.3	228.5	226.4	225.3	224.3
17.5°	888.7	730.5	492.5	358.1	255.0	217.9	210.0	205.8	201.5	200.0	197.3
20°	909.3	709.9	444.3	293.6	215.8	197.3	187.8	179.9	173.5	169.3	168.7
22.5°	928.9	683.4	394.1	243.3	196.8	177.2	161.9	153.4	146.0	140.7	142.3
25°	939.5	651.2	349.1	212.1	179.3	157.1	140.2	129.6	121.7	119.0	118.5
27.5°	939.5	611.5	305.2	194.1	163.5	139.1	121.7	111.6	106.3	102.6	103.2
30°	932.1	567.6	264.5	180.4	149.7	123.3	106.9	97.9	93.6	91.0	90.5
32.5°	926.2	525.8	229.6	167.2	135.4	109.5	95.2	88.3	84.1	81.5	81.5
35°	935.2	489.8	202.6	153.9	122.2	98.9	86.2	79.9	75.6	73.5	73.0
37.5°	959.0	457.0	182.0	139.7	110.0	89.9	79.9	72.5	68.2	65.6	64.5
40°	1017.8	438.5	166.6	126.4	98.4	82.5	72.5	65.6	60.3	57.7	57.1
42.5°	1111.9	439.1	151.8	114.3	89.4	76.2	66.1	58.2	52.4	49.7	49.2
45°	1253.7	459.2	140.2	102.6	81.5	69.3	59.2	50.8	45.5	42.8	42.8
47.5°	1423.5	498.3	130.1	92.6	74.1	62.9	52.4	43.9	38.6	36.5	36.5
50°	1607.6	549.1	120.1	82.0	67.7	56.1	45.0	38.1	33.9	32.3	32.3
52.5°	1795.4	610.4	110.0	73.5	60.8	48.7	38.6	33.9	30.2	29.1	28.6
55°	2041.9	688.7	99.4	64.5	53.4	41.8	34.4	29.6	25.4	23.8	23.3
57.5°	2421.1	806.7	87.8	56.6	43.9	34.9	29.6	24.9	20.1	17.5	16.9
60°	2878.7	950.6	75.6	49.7	35.4	28.6	23.8	19.0	14.8	11.6	11.1
62.5°	3307.2	1042.1	64.0	41.8	28.0	21.7	16.9	14.3	10.6	7.4	6.9
65°	3496.6	1011.4	52.9	33.9	22.2	15.3	11.1	10.1	6.3	3.2	2.6
66°	3433.6	965.9	48.7	30.7	20.1	13.2	9.5	8.5	4.8	1.6	1.6
67.5°	3247.9	858.5	42.3	26.4	17.5	10.6	7.4	6.3	2.6	0.5	0.0
70°	2783.0	694.6	33.3	19.6	12.7	7.4	4.2	3.2	1.6	0.0	0.0
72.5°	2137.6	517.3	26.4	14.8	9.0	4.2	2.1	1.1	1.6	0.0	0.0
75°	1309.8	295.7	20.6	11.1	5.8	2.6	1.6	0.0	1.6	0.5	0.0
77.5°	581.3	132.8	13.8	7.4	4.2	2.1	1.1	0.0	1.1	0.5	0.0
80°	147.1	43.4	7.9	5.3	3.2	1.6	0.5	0.0	1.1	1.1	0.5
82.5°	40.2	15.9	5.8	4.2	2.6	1.6	0.5	0.0	1.1	1.1	1.1
85°	15.9	7.4	5.3	4.2	3.2	1.6	0.5	0.0	1.1	1.1	1.1
87.5°	7.4	5.3	5.3	4.8	3.7	1.6	0.5	0.0	1.1	0.5	1.1
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)