

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: P528502

Luminaire Tested: **GALN-SA3C-750-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-750-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18443 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

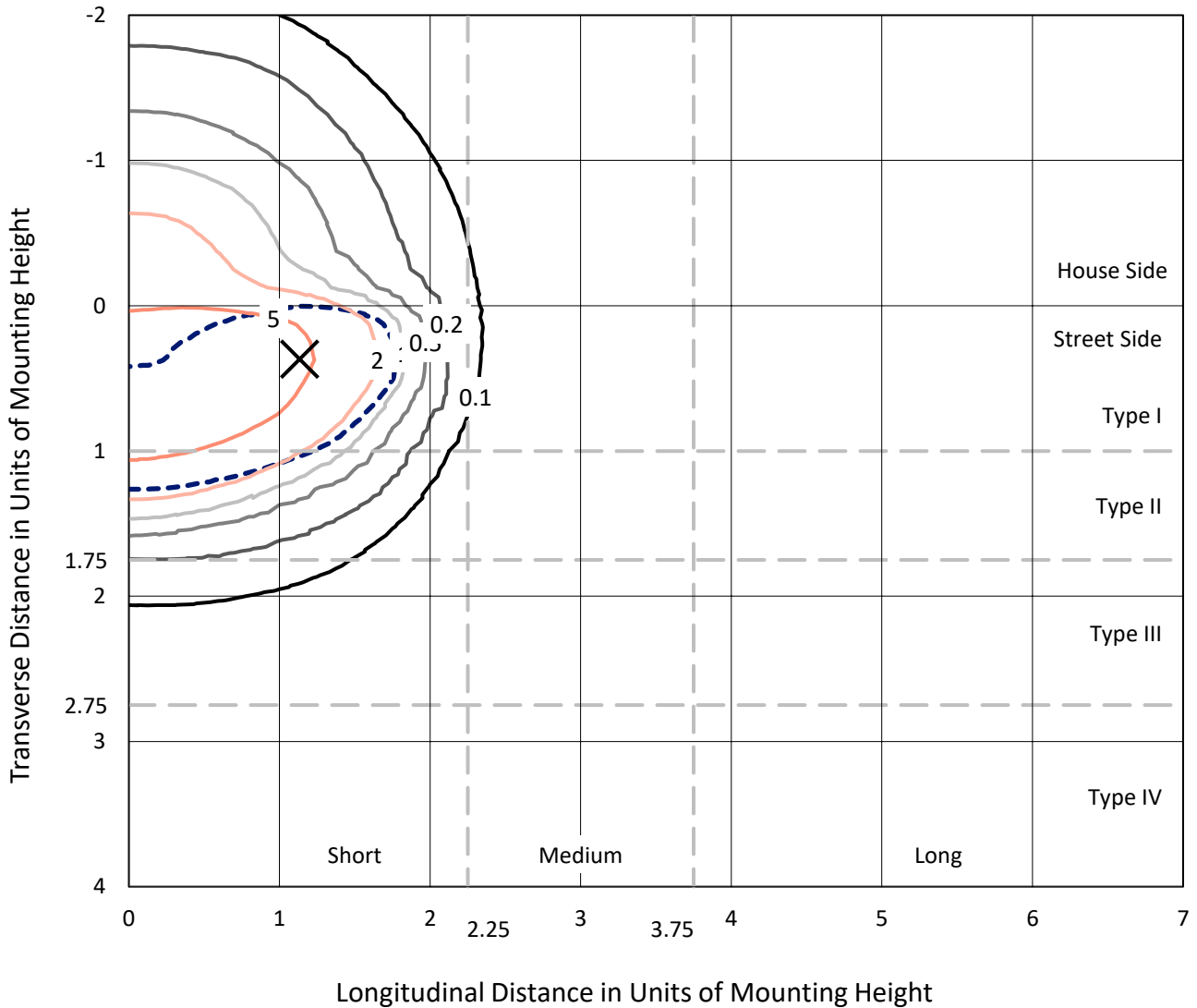
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

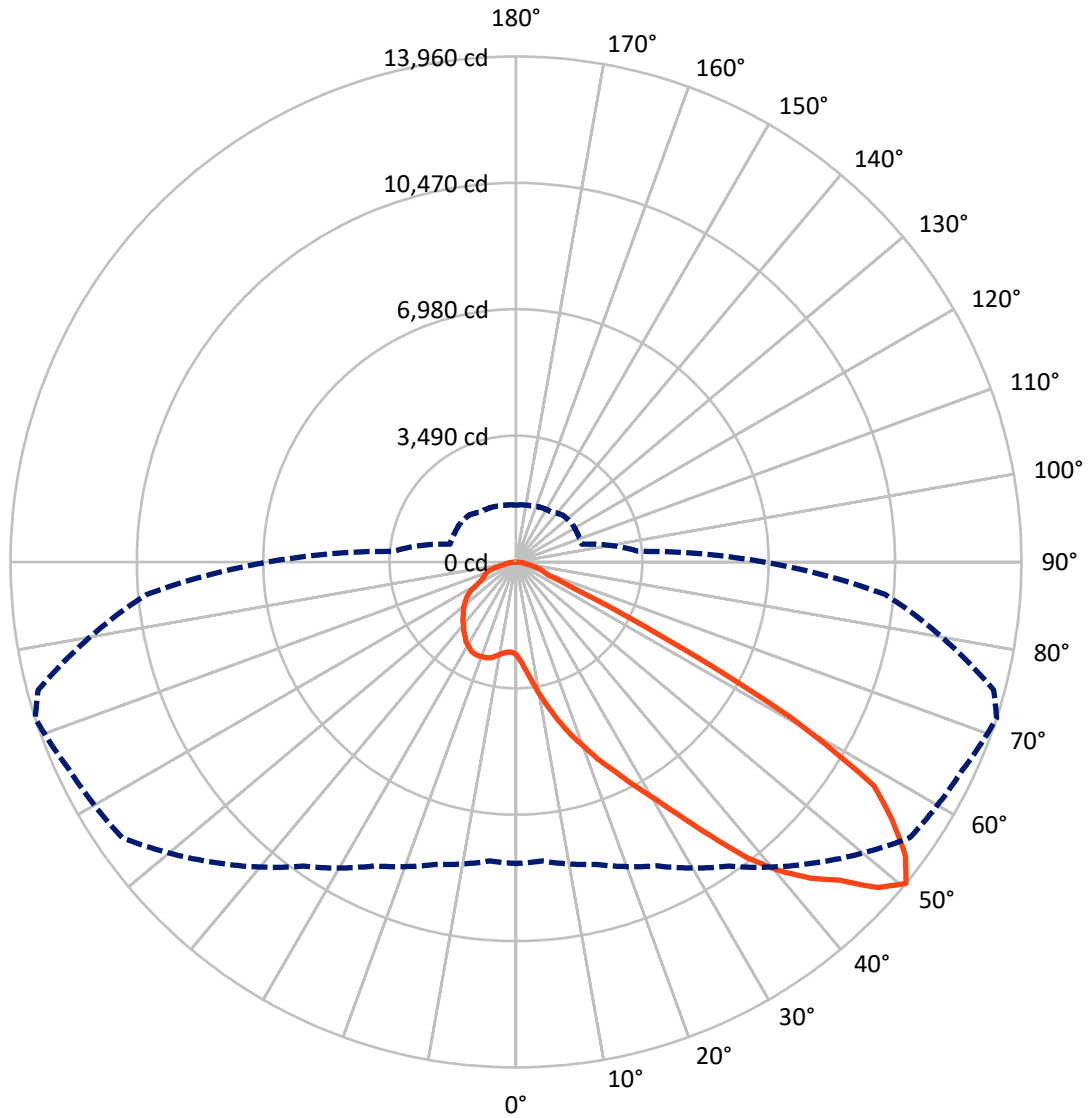
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4225.4	0.0	4225.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	14217.6	0.0	14217.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	18443.0	0.0	18443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.0	1.6
10°-20°	1129.0	6.1
20°-30°	2189.0	11.9
30°-40°	3626.4	19.7
40°-50°	5074.1	27.5
50°-60°	4280.6	23.2
60°-70°	1304.7	7.1
70°-80°	457.7	2.5
80°-90°	79.6	0.4
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°	18443.0	100.0
0°-180°	18443.0	100.0

Coefficient of Utilization



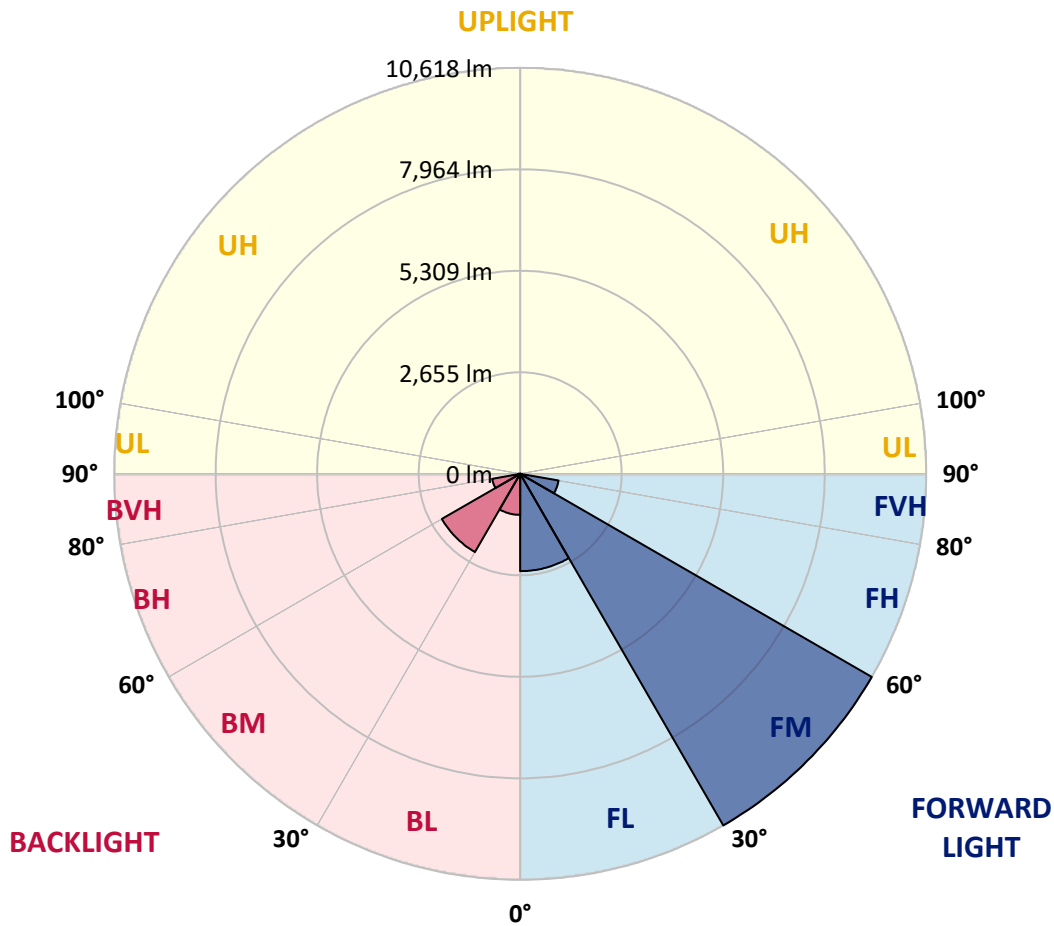
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2545.8	13.8			
FM (30°-60°)	10618.1	57.6			
FH (60°-80°)	1018.0	5.5			G1/1800
FVH (80°-90°)	35.6	0.2			G1/100
BL (0°-30°)	1074.1	5.8	B3/2500		
BM (30°-60°)	2362.9	12.8	B2/2500		
BH (60°-80°)	744.4	4.0	B2/1000		G2/1000
BVH (80°-90°)	43.9	0.2			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°	72°	75°	85°
0°	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4
2.5°	3302.3	3281.7	3220.1	3199.6	3126.6	2994.2	2948.5	2813.9	2756.8	2704.4	2642.7
5°	4176.3	4080.5	4073.6	3957.3	3788.4	3690.2	3398.1	3201.9	3021.6	2930.3	2761.4
7.5°	4733.2	4735.5	4735.5	4639.6	4505.0	4256.2	3993.8	3640.0	3368.5	3233.8	2946.3
10°	5262.6	5217.0	5191.9	5182.8	5091.5	4849.6	4568.9	4130.7	3758.7	3601.2	3085.5
12.5°	5636.9	5598.1	5655.2	5625.5	5559.3	5401.9	5137.1	4637.3	4171.8	3959.5	3309.1
15°	5814.9	5842.3	5888.0	5970.1	5940.4	5881.1	5589.0	5157.7	4616.8	4377.2	3507.7
17.5°	6088.8	6013.5	6068.2	6170.9	6253.1	6225.7	6059.1	5534.2	5057.3	4762.9	3774.7
20°	6280.5	6237.1	6264.5	6383.2	6444.8	6600.0	6513.3	6027.2	5479.5	5169.1	4089.6
22.5°	6828.2	6764.3	6675.3	6693.6	6716.4	6825.9	6846.5	6568.0	5970.1	5641.5	4388.6
25°	7503.7	7444.4	7339.4	7232.1	7166.0	7145.4	7216.2	6992.5	6440.2	6100.2	4710.4
27.5°	8247.7	8147.3	8081.1	7859.7	7681.7	7654.3	7620.1	7499.2	6997.1	6629.7	5073.2
30°	8971.1	8891.3	8802.3	8448.5	8263.7	8234.0	8065.1	8099.4	7601.9	7193.3	5484.0
32.5°	9518.9	9525.7	9322.6	9055.6	8882.1	8724.7	8663.1	8761.2	8377.8	8049.2	5942.7
35°	9961.6	9982.1	9788.2	9546.2	9359.1	9468.7	9441.3	9486.9	9304.3	8902.7	6476.8
37.5°	10392.9	10290.2	10082.6	9966.2	9868.0	10048.3	10281.1	10319.9	10354.1	9881.7	7097.5
40°	10463.7	10472.8	10351.8	10434.0	10310.8	10582.3	11123.2	11073.0	11212.2	10799.2	7770.7
42.5°	10363.3	10383.8	10431.7	10548.1	10844.8	11171.1	11974.5	11769.1	11937.9	11570.5	8425.7
45°	10198.9	10114.5	10173.8	10616.6	11130.1	11855.8	12752.7	12592.9	12538.2	12230.1	9206.2
47.5°	9413.9	9500.6	9685.5	10230.9	11002.3	11974.5	13305.0	13268.4	13432.8	13216.0	9916.0
50°	8325.3	8291.1	8647.1	9261.0	10256.0	11741.7	13275.3	13606.2	13959.9	13658.7	10233.2
52.5°	6234.8	6417.4	6723.2	7485.5	8905.0	10472.8	12627.2	13179.4	13467.0	13403.1	9977.6
55°	3941.3	3996.1	4180.9	5086.9	6364.9	8405.2	10824.3	12104.5	12618.0	12857.7	9742.5
57.5°	1914.7	1812.0	2038.0	2766.0	3676.5	5652.9	8348.1	10543.5	11659.5	12093.1	9231.3
60°	999.6	1038.4	1127.4	1387.5	1901.0	2934.8	5203.3	7026.8	8731.5	9397.9	6997.1
62.5°	828.4	842.1	901.5	1031.5	1264.3	1688.8	2656.4	3425.5	4452.5	5052.7	3980.1
65°	702.9	709.7	773.7	860.4	1008.7	1189.0	1367.0	1430.9	1732.2	1777.8	1414.9
67.5°	586.5	593.4	661.8	744.0	839.8	887.8	933.4	928.8	963.1	949.4	947.1
70°	451.9	458.7	529.5	616.2	664.1	636.7	778.2	810.2	823.9	835.3	853.5
72.5°	326.3	340.0	394.8	456.4	431.3	495.2	641.3	689.2	707.5	714.3	737.1
75°	237.3	241.9	255.6	237.3	273.9	344.6	451.9	511.2	534.0	540.9	575.1
77.5°	105.0	107.3	109.5	136.9	175.7	214.5	269.3	317.2	349.2	358.3	367.4
80°	54.8	57.1	70.7	93.6	125.5	157.5	196.3	223.7	244.2	246.5	255.6
82.5°	34.2	36.5	50.2	66.2	89.0	116.4	143.8	166.6	182.6	184.9	187.1
85°	16.0	20.5	29.7	41.1	59.3	75.3	77.6	66.2	70.7	73.0	68.5
87.5°	4.6	6.8	9.1	6.8	9.1	9.1	11.4	13.7	13.7	13.7	16.0
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°	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4
2.5°	2608.5	2588.0	2508.1	2478.4	2400.8	2414.5	2373.4	2371.2	2362.0	2359.7	2357.5
5°	2672.4	2608.5	2512.7	2439.6	2396.3	2391.7	2362.0	2362.0	2371.2	2378.0	2362.0
7.5°	2777.4	2704.4	2542.3	2473.9	2435.1	2428.2	2407.7	2391.7	2412.2	2405.4	2387.1
10°	2898.3	2770.5	2599.4	2540.0	2476.1	2460.2	2460.2	2467.0	2432.8	2444.2	2425.9
12.5°	3033.0	2861.8	2672.4	2603.9	2528.6	2519.5	2514.9	2464.7	2483.0	2473.9	2428.2
15°	3204.1	2966.8	2766.0	2649.6	2585.7	2544.6	2485.3	2476.1	2464.7	2441.9	2421.4
17.5°	3389.0	3080.9	2809.3	2663.3	2567.4	2537.8	2492.1	2444.2	2410.0	2414.5	2398.5
20°	3546.5	3185.9	2825.3	2677.0	2553.7	2496.7	2425.9	2396.3	2359.7	2357.5	2355.2
22.5°	3733.6	3327.4	2848.1	2640.5	2512.7	2453.3	2405.4	2352.9	2327.8	2295.8	2311.8
25°	3957.3	3382.2	2852.7	2619.9	2483.0	2378.0	2352.9	2295.8	2286.7	2241.1	2250.2
27.5°	4119.3	3411.8	2816.2	2556.0	2414.5	2334.6	2289.0	2247.9	2231.9	2197.7	2188.6
30°	4336.1	3457.5	2738.6	2476.1	2346.1	2257.0	2229.7	2220.5	2174.9	2138.4	2133.8
32.5°	4582.6	3487.1	2688.4	2394.0	2275.3	2206.8	2220.5	2177.2	2120.1	2088.2	2079.0
35°	4778.8	3498.5	2562.9	2300.4	2227.4	2184.0	2168.0	2158.9	2076.8	2047.1	2024.3
37.5°	5077.8	3473.4	2457.9	2234.2	2174.9	2158.9	2145.2	2083.6	1990.0	1946.7	1914.7
40°	5427.0	3466.6	2323.2	2140.7	2124.7	2142.9	2101.9	2006.0	1875.9	1828.0	1805.2
42.5°	5762.4	3514.5	2238.8	2090.5	2069.9	2076.8	2019.7	1875.9	1812.0	1784.6	1748.1
45°	6323.8	3614.9	2099.6	2012.9	2003.7	1999.2	1930.7	1780.1	1743.6	1709.3	1702.5
47.5°	6830.5	3548.7	2010.6	1933.0	1942.1	1917.0	1771.0	1723.0	1681.9	1647.7	1636.3
50°	6860.2	3391.3	1885.1	1871.4	1873.6	1830.3	1691.1	1659.1	1606.6	1583.8	1567.8
52.5°	6705.0	3133.4	1768.7	1773.2	1780.1	1709.3	1592.9	1570.1	1526.8	1494.8	1485.7
55°	6269.1	2731.7	1654.6	1672.8	1691.1	1556.4	1519.9	1462.9	1428.6	1383.0	1385.3
57.5°	5522.8	2200.0	1494.8	1524.5	1563.3	1414.9	1387.5	1316.8	1266.6	1230.1	1225.5
60°	3701.7	1565.6	1255.2	1266.6	1353.3	1294.0	1291.7	1221.0	1152.5	1120.5	1102.3
62.5°	2184.0	1195.8	1084.0	1072.6	1070.3	1104.6	1161.6	1136.5	1047.5	985.9	1004.1
65°	1143.4	1033.8	1008.7	969.9	947.1	938.0	981.3	992.7	933.4	867.2	862.7
67.5°	960.8	960.8	940.2	926.6	894.6	855.8	828.4	791.9	782.8	764.5	741.7
70°	874.1	896.9	890.0	858.1	830.7	787.3	716.6	657.3	600.2	579.7	593.4
72.5°	762.2	785.1	785.1	769.1	732.6	666.4	597.9	529.5	481.5	445.0	440.5
75°	586.5	597.9	625.3	607.1	559.1	518.0	447.3	376.6	330.9	296.7	289.8
77.5°	374.3	392.5	392.5	390.2	356.0	317.2	271.6	221.4	187.1	162.0	155.2
80°	248.8	260.2	269.3	260.2	237.3	207.7	173.4	139.2	114.1	93.6	89.0
82.5°	182.6	196.3	203.1	194.0	171.2	148.3	123.2	98.1	73.0	57.1	52.5
85°	70.7	73.0	82.2	98.1	95.9	93.6	75.3	54.8	41.1	29.7	27.4
87.5°	18.3	16.0	18.3	18.3	16.0	13.7	13.7	13.7	13.7	6.8	9.1
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)