

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: P528736

Luminaire Tested: **GALN-SA3D-750-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528736
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-SA3D-750-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1200mA 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: 20293 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

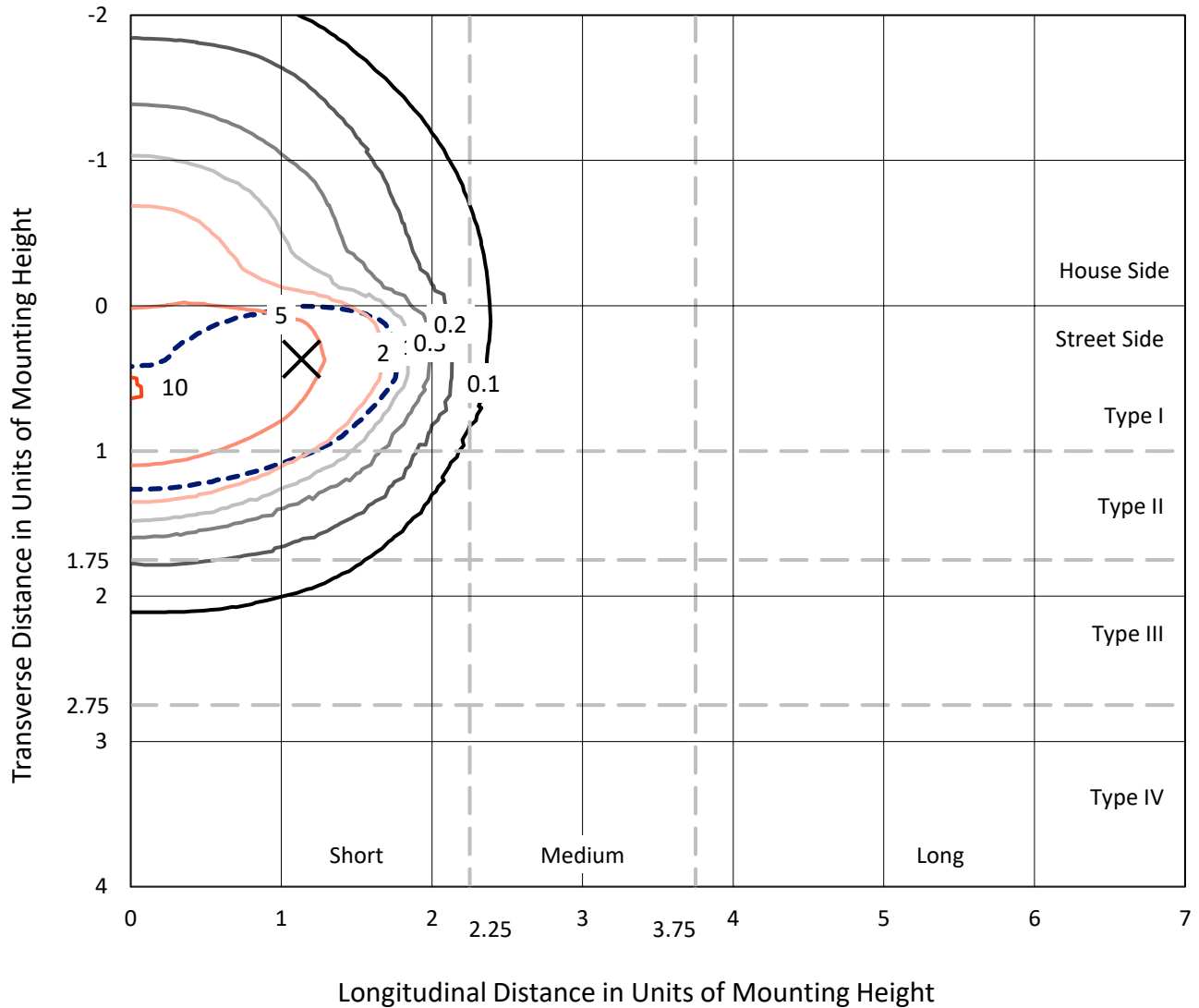
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

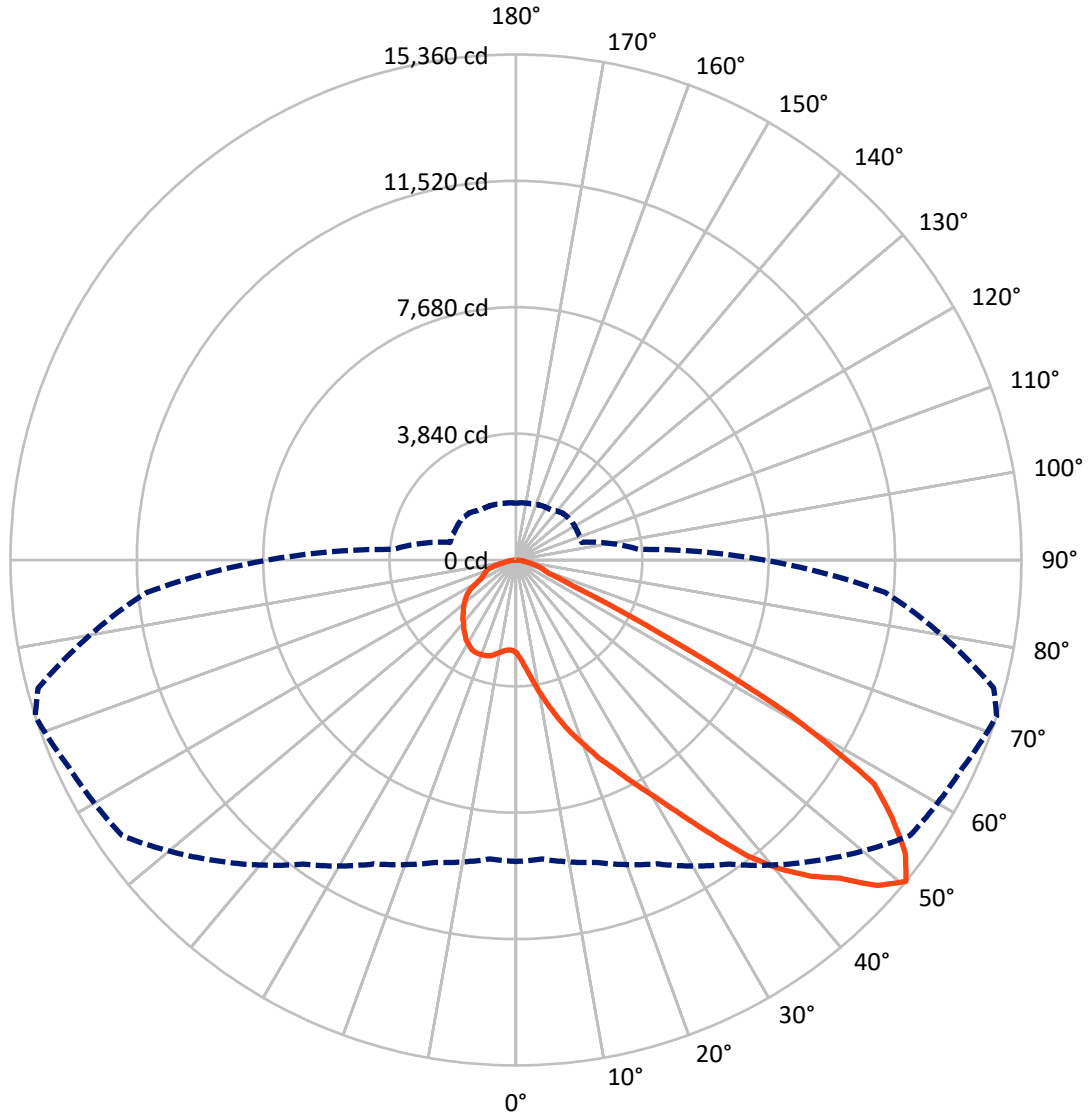
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	4649.3	0.0	4649.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	15643.7	0.0	15643.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	20293.0	0.0	20293.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.3	1.6
10°-20°	1242.2	6.1
20°-30°	2408.5	11.9
30°-40°	3990.1	19.7
40°-50°	5583.0	27.5
50°-60°	4710.0	23.2
60°-70°	1435.6	7.1
70°-80°	503.6	2.5
80°-90°	87.6	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°	20293.0	100.0
0°-180°	20293.0	100.0

Coefficient of Utilization

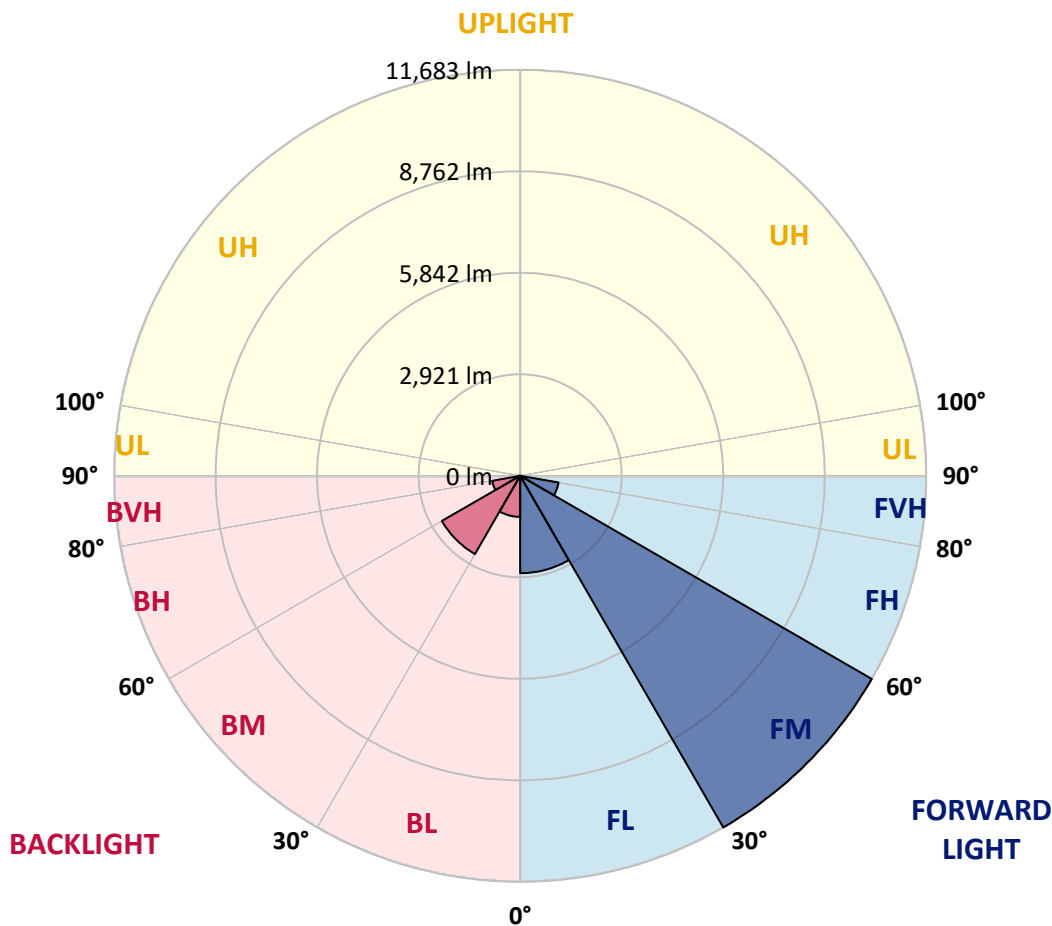


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2801.2	13.8			
FM (30°-60°)	11683.2	57.6			
FH (60°-80°)	1120.1	5.5			G1/1800
FVH (80°-90°)	39.2	0.2			G1/100
BL (0°-30°)	1181.9	5.8	B3/2500		
BM (30°-60°)	2599.9	12.8	B3/5000		
BH (60°-80°)	819.1	4.0	B2/1000		G2/1000
BVH (80°-90°)	48.3	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°	2825.0	2825.0	2825.0	2825.0	2825.0	2825.0	2825.0	2825.0	2825.0	2825.0	2825.0
2.5°	3633.5	3610.9	3543.1	3520.5	3440.2	3294.5	3244.3	3096.2	3033.4	2975.6	2907.8
5°	4595.3	4489.8	4482.3	4354.2	4168.4	4060.4	3739.0	3523.0	3324.7	3224.2	3038.4
7.5°	5208.0	5210.5	5210.5	5105.0	4956.9	4683.2	4394.4	4005.2	3706.3	3558.2	3241.8
10°	5790.5	5740.3	5712.7	5702.6	5602.2	5336.0	5027.2	4545.0	4135.7	3962.5	3395.0
12.5°	6202.4	6159.7	6222.4	6189.8	6117.0	5943.7	5652.4	5102.5	4590.2	4356.7	3641.1
15°	6398.2	6428.4	6478.6	6569.0	6536.3	6471.0	6149.6	5675.0	5079.9	4816.2	3859.5
17.5°	6699.5	6616.7	6676.9	6789.9	6880.3	6850.2	6666.9	6089.4	5564.5	5240.6	4153.3
20°	6910.5	6862.8	6892.9	7023.5	7091.3	7262.0	7166.6	6631.7	6029.1	5687.6	4499.8
22.5°	7513.1	7442.8	7344.9	7365.0	7390.1	7510.6	7533.2	7226.9	6569.0	6207.4	4828.8
25°	8256.4	8191.1	8075.6	7957.6	7884.8	7862.2	7940.0	7693.9	7086.3	6712.1	5182.9
27.5°	9075.0	8964.5	8891.7	8648.1	8452.3	8422.1	8384.5	8251.4	7699.0	7294.7	5582.1
30°	9871.0	9783.1	9685.2	9296.0	9092.6	9060.0	8874.1	8911.8	8364.4	7914.9	6034.1
32.5°	10473.7	10481.2	10257.7	9963.9	9773.1	9599.8	9532.0	9640.0	9218.2	8856.6	6538.8
35°	10960.8	10983.4	10770.0	10503.8	10297.9	10418.4	10388.3	10438.5	10237.7	9795.7	7126.4
37.5°	11435.4	11322.4	11093.9	10965.9	10857.9	11056.3	11312.4	11355.1	11392.7	10873.0	7809.4
40°	11513.3	11523.3	11390.2	11480.6	11345.0	11643.9	12239.0	12183.7	12336.9	11882.4	8550.2
42.5°	11402.8	11425.4	11478.1	11606.2	11932.6	12291.7	13175.6	12949.6	13135.4	12731.1	9270.9
45°	11222.0	11129.1	11194.4	11681.5	12246.5	13045.0	14031.9	13856.1	13795.8	13456.8	10129.7
47.5°	10358.2	10453.6	10657.0	11257.1	12105.9	13175.6	14639.6	14599.4	14780.2	14541.6	10910.6
50°	9160.4	9122.7	9514.5	10189.9	11284.8	12919.5	14606.9	14971.0	15360.2	15028.8	11259.7
52.5°	6860.3	7061.1	7397.6	8236.3	9798.2	11523.3	13893.8	14501.5	14817.8	14747.5	10978.4
55°	4336.6	4396.9	4600.3	5597.2	7003.4	9248.3	11910.0	13318.7	13883.7	14147.4	10719.8
57.5°	2106.8	1993.8	2242.4	3043.4	4045.3	6219.9	9185.5	11601.2	12829.1	13306.2	10157.3
60°	1099.9	1142.5	1240.5	1526.7	2091.7	3229.2	5725.2	7731.6	9607.4	10340.6	7699.0
62.5°	911.5	926.6	991.9	1135.0	1391.1	1858.2	2922.9	3769.1	4899.1	5559.5	4379.3
65°	773.4	780.9	851.3	946.7	1109.9	1308.3	1504.1	1574.4	1905.9	1956.1	1556.9
67.5°	645.3	652.9	728.2	818.6	924.1	976.8	1027.0	1022.0	1059.7	1044.6	1042.1
70°	497.2	504.7	582.6	678.0	730.7	700.6	856.3	891.4	906.5	919.1	939.1
72.5°	359.1	374.2	434.4	502.2	474.6	544.9	705.6	758.3	778.4	786.0	811.1
75°	261.2	266.2	281.2	261.2	301.3	379.2	497.2	562.5	587.6	595.1	632.8
77.5°	115.5	118.0	120.5	150.7	193.4	236.0	296.3	349.0	384.2	394.2	404.3
80°	60.3	62.8	77.8	103.0	138.1	173.3	216.0	246.1	268.7	271.2	281.2
82.5°	37.7	40.2	55.2	72.8	97.9	128.1	158.2	183.3	200.9	203.4	205.9
85°	17.6	22.6	32.6	45.2	65.3	82.9	85.4	72.8	77.8	80.4	75.3
87.5°	5.0	7.5	10.0	7.5	10.0	10.0	12.6	15.1	15.1	15.1	17.6
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°	2825.0	2825.0	2825.0	2825.0	2825.0	2825.0	2825.0	2825.0	2825.0	2825.0	2825.0
2.5°	2870.2	2847.6	2759.7	2727.0	2641.7	2656.7	2611.5	2609.0	2599.0	2596.5	2593.9
5°	2940.5	2870.2	2764.7	2684.3	2636.6	2631.6	2599.0	2599.0	2609.0	2616.5	2599.0
7.5°	3056.0	2975.6	2797.3	2722.0	2679.3	2671.8	2649.2	2631.6	2654.2	2646.7	2626.6
10°	3189.1	3048.4	2860.1	2794.8	2724.5	2706.9	2706.9	2714.5	2676.8	2689.4	2669.3
12.5°	3337.2	3148.9	2940.5	2865.1	2782.3	2772.2	2767.2	2712.0	2732.0	2722.0	2671.8
15°	3525.5	3264.4	3043.4	2915.4	2845.0	2799.8	2734.6	2724.5	2712.0	2686.8	2664.2
17.5°	3728.9	3390.0	3091.1	2930.4	2825.0	2792.3	2742.1	2689.4	2651.7	2656.7	2639.1
20°	3902.2	3505.5	3108.7	2945.5	2809.9	2747.1	2669.3	2636.6	2596.5	2593.9	2591.4
22.5°	4108.1	3661.1	3133.8	2905.3	2764.7	2699.4	2646.7	2588.9	2561.3	2526.1	2543.7
25°	4354.2	3721.4	3138.8	2882.7	2732.0	2616.5	2588.9	2526.1	2516.1	2465.9	2475.9
27.5°	4532.5	3754.1	3098.7	2812.4	2656.7	2568.8	2518.6	2473.4	2455.8	2418.2	2408.1
30°	4771.0	3804.3	3013.3	2724.5	2581.4	2483.5	2453.3	2443.3	2393.1	2352.9	2347.9
32.5°	5042.2	3836.9	2958.0	2634.1	2503.5	2428.2	2443.3	2395.6	2332.8	2297.6	2287.6
35°	5258.2	3849.5	2819.9	2531.2	2450.8	2403.1	2385.5	2375.5	2285.1	2252.4	2227.3
37.5°	5587.1	3821.9	2704.4	2458.3	2393.1	2375.5	2360.4	2292.6	2189.7	2141.9	2106.8
40°	5971.3	3814.3	2556.3	2355.4	2337.8	2357.9	2312.7	2207.2	2064.1	2011.4	1986.3
42.5°	6340.5	3867.1	2463.4	2300.1	2277.5	2285.1	2222.3	2064.1	1993.8	1963.7	1923.5
45°	6958.2	3977.5	2310.2	2214.8	2204.7	2199.7	2124.4	1958.6	1918.5	1880.8	1873.3
47.5°	7515.6	3904.7	2212.3	2126.9	2136.9	2109.3	1948.6	1895.9	1850.7	1813.0	1800.4
50°	7548.3	3731.5	2074.1	2059.1	2061.6	2013.9	1860.7	1825.6	1767.8	1742.7	1725.1
52.5°	7377.5	3447.7	1946.1	1951.1	1958.6	1880.8	1752.7	1727.6	1679.9	1644.8	1634.7
55°	6897.9	3005.8	1820.5	1840.6	1860.7	1712.6	1672.4	1609.6	1571.9	1521.7	1524.2
57.5°	6076.8	2420.7	1644.8	1677.4	1720.1	1556.9	1526.7	1448.9	1393.6	1353.5	1348.4
60°	4073.0	1722.6	1381.1	1393.6	1489.1	1423.8	1421.3	1343.4	1268.1	1232.9	1212.8
62.5°	2403.1	1315.8	1192.8	1180.2	1177.7	1215.4	1278.1	1250.5	1152.6	1084.8	1104.9
65°	1258.0	1137.5	1109.9	1067.2	1042.1	1032.1	1079.8	1092.3	1027.0	954.2	949.2
67.5°	1057.2	1057.2	1034.6	1019.5	984.3	941.7	911.5	871.3	861.3	841.2	816.1
70°	961.7	986.9	979.3	944.2	914.0	866.3	788.5	723.2	660.4	637.8	652.9
72.5°	838.7	863.8	863.8	846.2	806.1	733.2	657.9	582.6	529.8	489.7	484.6
75°	645.3	657.9	688.0	667.9	615.2	570.0	492.2	414.3	364.1	326.4	318.9
77.5°	411.8	431.9	431.9	429.4	391.7	349.0	298.8	243.6	205.9	178.3	170.8
80°	273.7	286.3	296.3	286.3	261.2	228.5	190.8	153.2	125.6	103.0	97.9
82.5°	200.9	216.0	223.5	213.4	188.3	163.2	135.6	108.0	80.4	62.8	57.8
85°	77.8	80.4	90.4	108.0	105.5	103.0	82.9	60.3	45.2	32.6	30.1
87.5°	20.1	17.6	20.1	20.1	17.6	15.1	15.1	15.1	15.1	7.5	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

(END OF REPORT)