

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: P529906

Luminaire Tested: **GALN-SA5A-750-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529906
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-SA5A-750-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 615mA 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: 20125 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

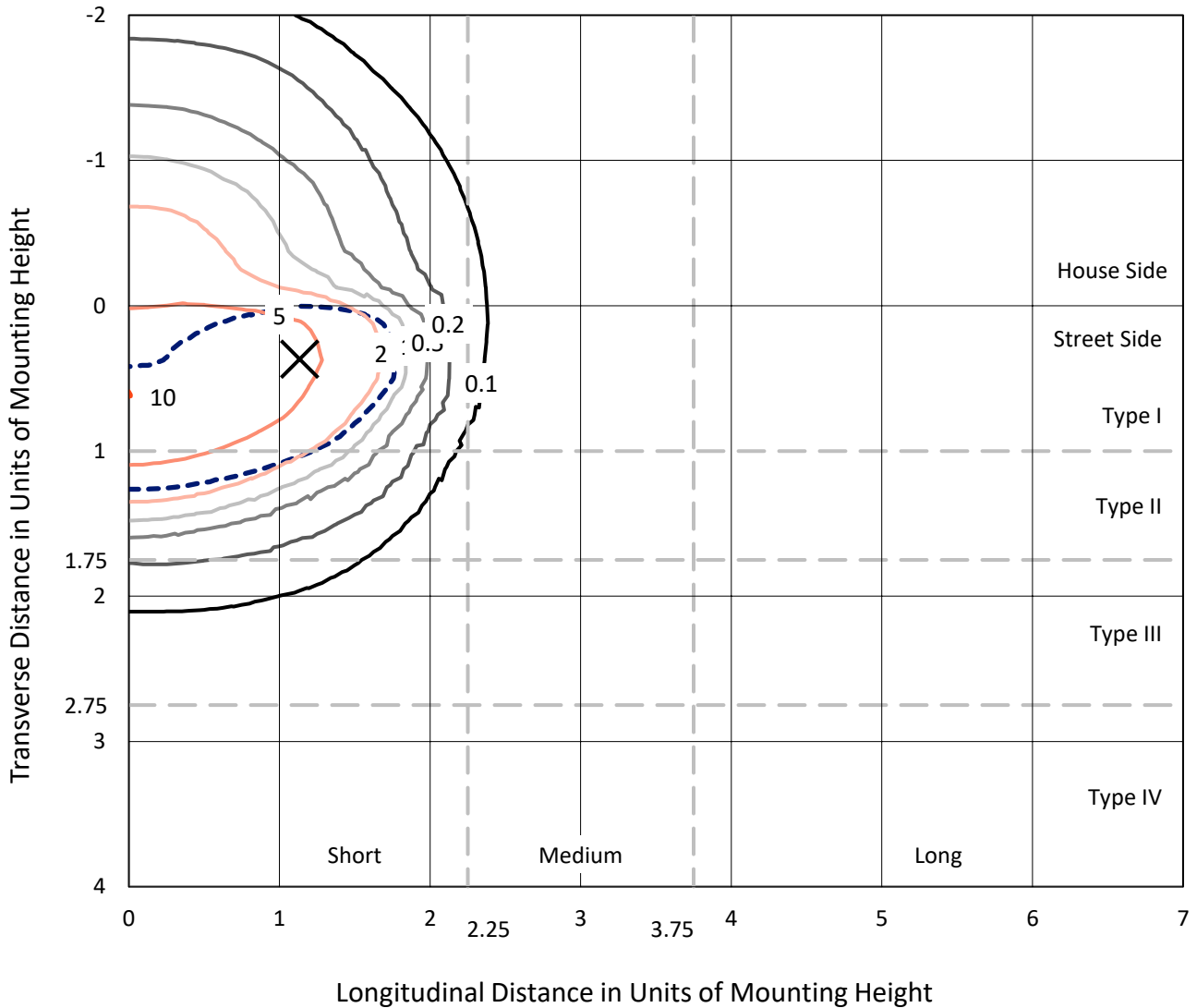
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

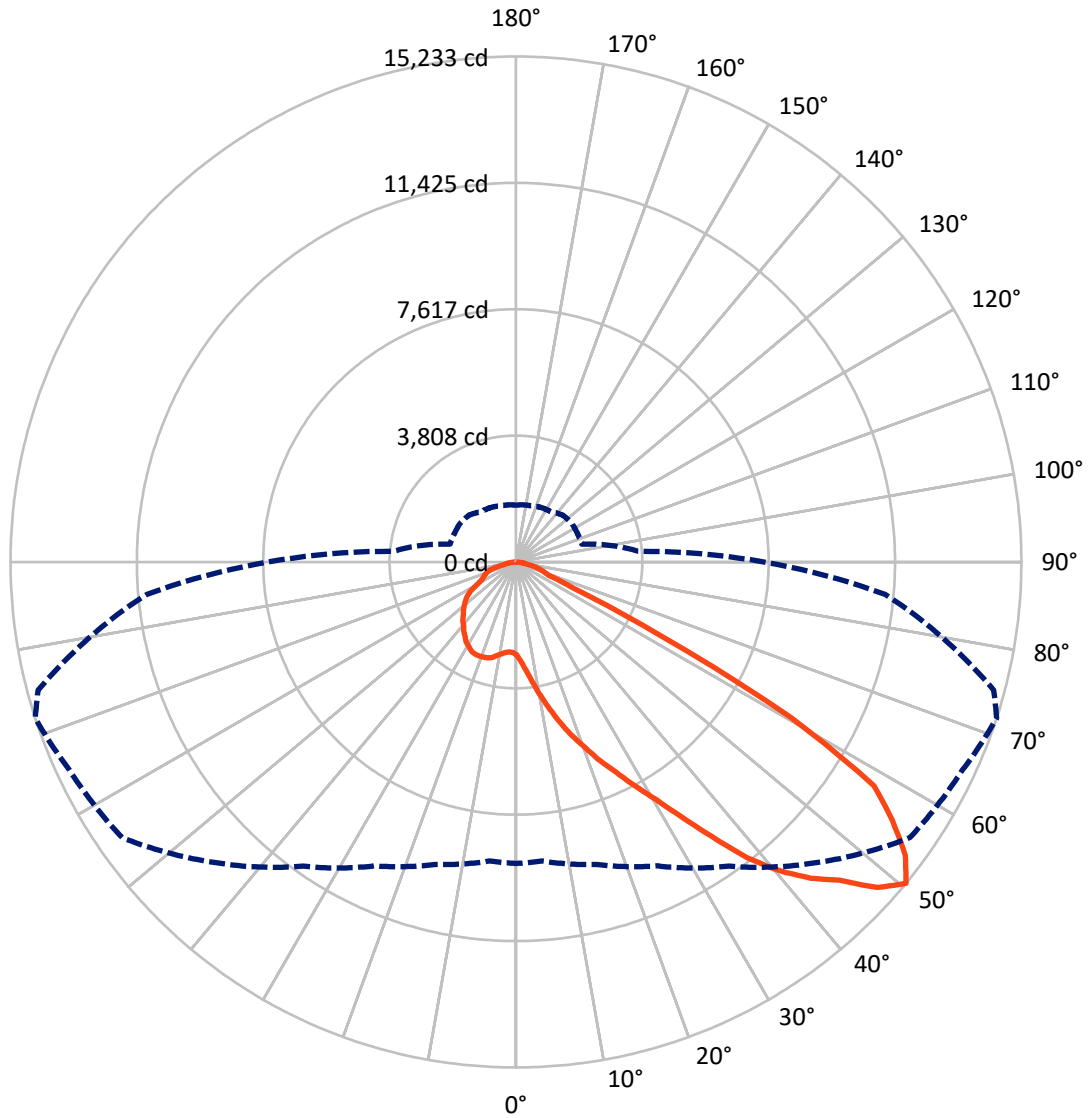
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - N/A

REPORT NUMBER: P529906
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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	4610.8	0.0	4610.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	15514.2	0.0	15514.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	20125.0	0.0	20125.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.5	1.6
10°-20°	1231.9	6.1
20°-30°	2388.6	11.9
30°-40°	3957.1	19.7
40°-50°	5536.8	27.5
50°-60°	4671.0	23.2
60°-70°	1423.7	7.1
70°-80°	499.5	2.5
80°-90°	86.8	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°	20125.0	100.0
0°-180°	20125.0	100.0

Coefficient of Utilization



REPORT NUMBER: P529906

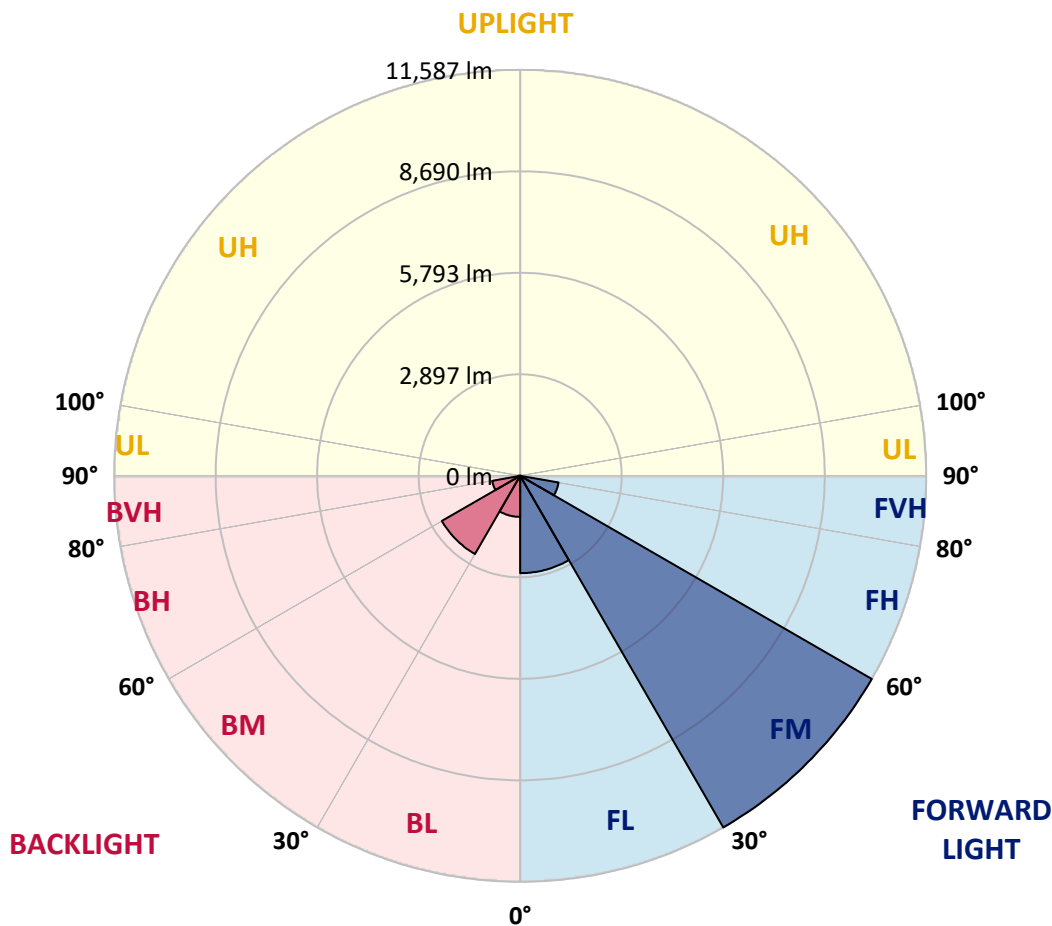
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2778.0	13.8			
FM (30°-60°)	11586.5	57.6			
FH (60°-80°)	1110.9	5.5			G1/1800
FVH (80°-90°)	38.9	0.2			G1/100
BL (0°-30°)	1172.1	5.8	B3/2500		
BM (30°-60°)	2578.4	12.8	B3/5000		
BH (60°-80°)	812.3	4.0	B2/1000		G2/1000
BVH (80°-90°)	47.9	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





REPORT NUMBER: P529906

CATALOG NUMBER: GALN-SA5A-750-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2801.6	2801.6	2801.6	2801.6	2801.6	2801.6	2801.6	2801.6	2801.6	2801.6	2801.6
2.5°	3603.4	3581.0	3513.8	3491.4	3411.7	3267.3	3217.4	3070.5	3008.3	2951.0	2883.8
5°	4557.2	4452.6	4445.2	4318.2	4133.9	4026.8	3708.0	3493.9	3297.1	3197.5	3013.2
7.5°	5164.9	5167.3	5167.3	5062.8	4915.8	4644.4	4358.0	3972.0	3675.7	3528.7	3215.0
10°	5742.6	5692.8	5665.4	5655.4	5555.8	5291.9	4985.6	4507.4	4101.5	3929.7	3366.9
12.5°	6151.0	6108.7	6170.9	6138.6	6066.3	5894.5	5605.6	5060.3	4552.2	4320.6	3610.9
15°	6345.2	6375.1	6424.9	6514.6	6482.2	6417.5	6098.7	5628.0	5037.8	4776.4	3827.6
17.5°	6644.1	6561.9	6621.7	6733.7	6823.4	6793.5	6611.7	6038.9	5518.5	5197.2	4118.9
20°	6853.3	6806.0	6835.8	6965.3	7032.6	7201.9	7107.3	6576.8	5979.2	5640.5	4462.6
22.5°	7450.9	7381.2	7284.1	7304.0	7328.9	7448.4	7470.9	7167.0	6514.6	6156.0	4788.8
25°	8188.1	8123.3	8008.8	7891.7	7819.5	7797.1	7874.3	7630.2	7027.6	6656.5	5140.0
27.5°	8999.9	8890.3	8818.1	8576.5	8382.3	8352.4	8315.1	8183.1	7635.2	7234.3	5535.9
30°	9789.3	9702.2	9605.0	9219.0	9017.3	8985.0	8800.7	8838.0	8295.1	7849.4	5984.2
32.5°	10387.0	10394.5	10172.8	9881.5	9692.2	9520.4	9453.1	9560.2	9141.8	8783.2	6484.7
35°	10870.1	10892.5	10680.8	10416.9	10212.7	10332.2	10302.3	10352.1	10152.9	9714.6	7067.4
37.5°	11340.8	11228.7	11002.1	10875.1	10768.0	10964.7	11218.7	11261.1	11298.4	10782.9	7744.8
40°	11418.0	11427.9	11295.9	11385.6	11251.1	11547.5	12137.7	12082.9	12234.8	11784.0	8479.4
42.5°	11308.4	11330.8	11383.1	11510.1	11833.8	12189.9	13066.5	12842.4	13026.7	12625.7	9194.1
45°	11129.1	11036.9	11101.7	11584.8	12145.1	12937.0	13915.7	13741.4	13681.6	13345.4	10045.8
47.5°	10272.4	10367.1	10568.8	11164.0	12005.7	13066.5	14518.4	14478.5	14657.8	14421.2	10820.3
50°	9084.6	9047.2	9435.7	10105.6	11191.3	12812.5	14486.0	14847.1	15233.1	14904.4	11166.4
52.5°	6803.5	7002.7	7336.4	8168.1	9717.1	11427.9	13778.8	14381.4	14695.2	14625.4	10887.5
55°	4300.7	4360.5	4562.2	5550.8	6945.4	9171.7	11811.4	13208.5	13768.8	14030.3	10631.0
57.5°	2089.3	1977.3	2223.8	3018.2	4011.9	6168.4	9109.5	11505.1	12722.9	13196.0	10073.2
60°	1090.7	1133.1	1230.2	1514.1	2074.4	3202.5	5677.9	7667.6	9527.8	10255.0	7635.2
62.5°	904.0	918.9	983.7	1125.6	1379.6	1842.8	2898.7	3737.9	4858.5	5513.5	4343.1
65°	767.0	774.5	844.2	938.8	1100.7	1297.4	1491.7	1561.4	1890.1	1939.9	1544.0
67.5°	640.0	647.5	722.2	811.8	916.4	968.7	1018.5	1013.5	1050.9	1036.0	1033.5
70°	493.1	500.5	577.7	672.4	724.7	694.8	849.2	884.1	899.0	911.4	931.4
72.5°	356.1	371.1	430.8	498.1	470.7	540.4	699.8	752.1	772.0	779.5	804.4
75°	259.0	264.0	278.9	259.0	298.8	376.0	493.1	557.8	582.7	590.2	627.6
77.5°	114.6	117.0	119.5	149.4	191.8	234.1	293.9	346.1	381.0	391.0	400.9
80°	59.8	62.3	77.2	102.1	137.0	171.8	214.2	244.0	266.5	269.0	278.9
82.5°	37.4	39.8	54.8	72.2	97.1	127.0	156.9	181.8	199.2	201.7	204.2
85°	17.4	22.4	32.4	44.8	64.7	82.2	84.7	72.2	77.2	79.7	74.7
87.5°	5.0	7.5	10.0	7.5	10.0	10.0	12.5	14.9	14.9	14.9	17.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P529906

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2801.6	2801.6	2801.6	2801.6	2801.6	2801.6	2801.6	2801.6	2801.6	2801.6	2801.6
2.5°	2846.4	2824.0	2736.8	2704.5	2619.8	2634.7	2589.9	2587.4	2577.4	2575.0	2572.5
5°	2916.1	2846.4	2741.8	2662.1	2614.8	2609.8	2577.4	2577.4	2587.4	2594.9	2577.4
7.5°	3030.7	2951.0	2774.2	2699.5	2657.1	2649.7	2627.3	2609.8	2632.2	2624.8	2604.8
10°	3162.7	3023.2	2836.4	2771.7	2702.0	2684.5	2684.5	2692.0	2654.6	2667.1	2647.2
12.5°	3309.6	3122.8	2916.1	2841.4	2759.2	2749.3	2744.3	2689.5	2709.4	2699.5	2649.7
15°	3496.4	3237.4	3018.2	2891.2	2821.5	2776.7	2711.9	2702.0	2689.5	2664.6	2642.2
17.5°	3698.1	3361.9	3065.5	2906.2	2801.6	2769.2	2719.4	2667.1	2629.7	2634.7	2617.3
20°	3869.9	3476.4	3083.0	2921.1	2786.6	2724.4	2647.2	2614.8	2575.0	2572.5	2570.0
22.5°	4074.1	3630.8	3107.9	2881.3	2741.8	2677.1	2624.8	2567.5	2540.1	2505.2	2522.7
25°	4318.2	3690.6	3112.9	2858.8	2709.4	2594.9	2567.5	2505.2	2495.3	2445.5	2455.4
27.5°	4495.0	3723.0	3073.0	2789.1	2634.7	2547.6	2497.8	2452.9	2435.5	2398.1	2388.2
30°	4731.5	3772.8	2988.3	2702.0	2560.0	2462.9	2433.0	2423.0	2373.2	2333.4	2328.4
32.5°	5000.5	3805.2	2933.6	2612.3	2482.8	2408.1	2423.0	2375.7	2313.5	2278.6	2268.7
35°	5214.7	3817.6	2796.6	2510.2	2430.5	2383.2	2365.8	2355.8	2266.2	2233.8	2208.9
37.5°	5540.9	3790.2	2682.0	2438.0	2373.2	2355.8	2340.9	2273.6	2171.5	2124.2	2089.3
40°	5921.9	3782.7	2535.1	2335.9	2318.5	2338.4	2293.6	2189.0	2047.0	1994.7	1969.8
42.5°	6288.0	3835.0	2443.0	2281.1	2258.7	2266.2	2203.9	2047.0	1977.3	1947.4	1907.6
45°	6900.6	3944.6	2291.1	2196.4	2186.5	2181.5	2106.8	1942.4	1902.6	1865.2	1857.8
47.5°	7453.4	3872.4	2193.9	2109.3	2119.2	2091.8	1932.5	1880.2	1835.3	1798.0	1785.5
50°	7485.8	3700.6	2057.0	2042.0	2044.5	1997.2	1845.3	1810.4	1753.2	1728.3	1710.8
52.5°	7316.5	3419.2	1930.0	1935.0	1942.4	1865.2	1738.2	1713.3	1666.0	1631.1	1621.2
55°	6840.8	2980.9	1805.5	1825.4	1845.3	1698.4	1658.5	1596.3	1558.9	1509.1	1511.6
57.5°	6026.5	2400.6	1631.1	1663.5	1705.8	1544.0	1514.1	1436.9	1382.1	1342.3	1337.3
60°	4039.2	1708.3	1369.7	1382.1	1476.7	1412.0	1409.5	1332.3	1257.6	1222.7	1202.8
62.5°	2383.2	1304.9	1182.9	1170.4	1167.9	1205.3	1267.6	1240.2	1143.0	1075.8	1095.7
65°	1247.6	1128.1	1100.7	1058.4	1033.5	1023.5	1070.8	1083.3	1018.5	946.3	941.3
67.5°	1048.4	1048.4	1026.0	1011.1	976.2	933.9	904.0	864.1	854.2	834.2	809.3
70°	953.8	978.7	971.2	936.3	906.5	859.1	781.9	717.2	654.9	632.5	647.5
72.5°	831.8	856.7	856.7	839.2	799.4	727.2	652.5	577.7	525.5	485.6	480.6
75°	640.0	652.5	682.3	662.4	610.1	565.3	488.1	410.9	361.1	323.7	316.3
77.5°	408.4	428.3	428.3	425.8	388.5	346.1	296.3	241.6	204.2	176.8	169.3
80°	271.4	283.9	293.9	283.9	259.0	226.6	189.3	151.9	124.5	102.1	97.1
82.5°	199.2	214.2	221.6	211.7	186.8	161.9	134.5	107.1	79.7	62.3	57.3
85°	77.2	79.7	89.7	107.1	104.6	102.1	82.2	59.8	44.8	32.4	29.9
87.5°	19.9	17.4	19.9	19.9	17.4	14.9	14.9	14.9	14.9	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)