

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: P529334

Luminaire Tested: **GALN-SA4C-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529334
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-SA4C-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 20439 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

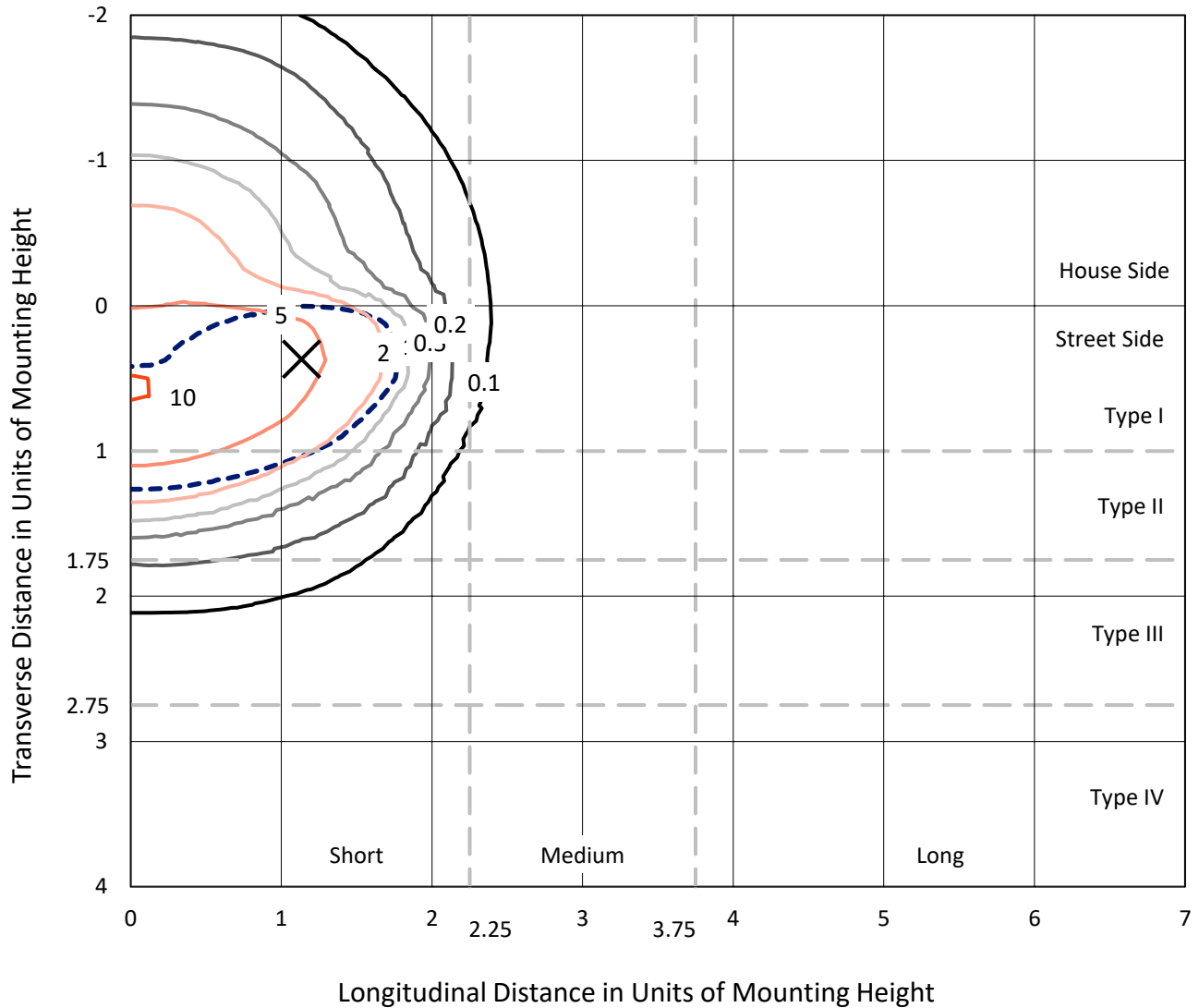
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

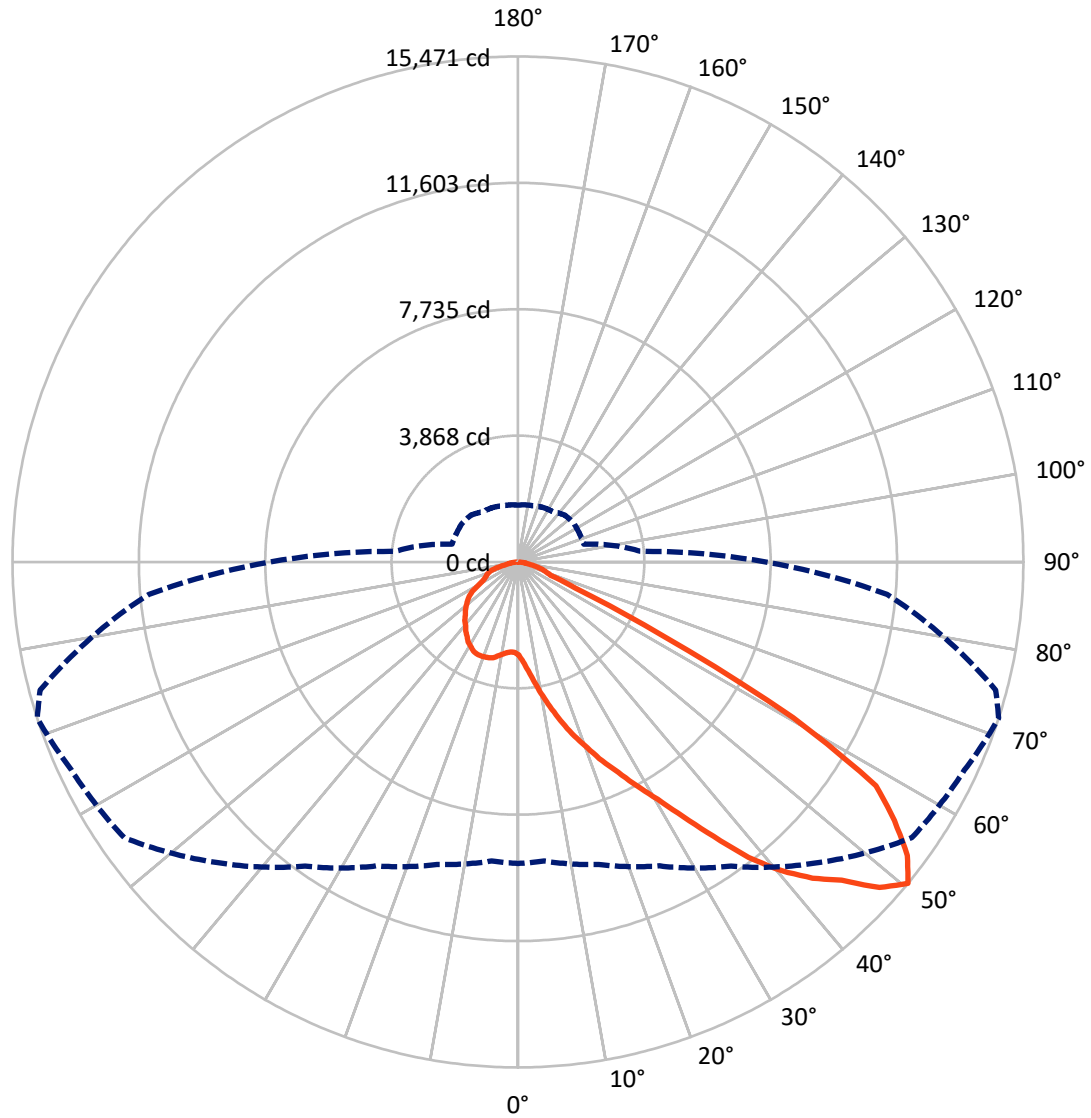
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	4682.7	0.0	4682.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	15756.3	0.0	15756.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	20439.0	0.0	20439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.7	1.6
10°-20°	1251.1	6.1
20°-30°	2425.9	11.9
30°-40°	4018.8	19.7
40°-50°	5623.2	27.5
50°-60°	4743.9	23.2
60°-70°	1445.9	7.1
70°-80°	507.3	2.5
80°-90°	88.2	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°	20439.0	100.0
0°-180°	20439.0	100.0

Coefficient of Utilization

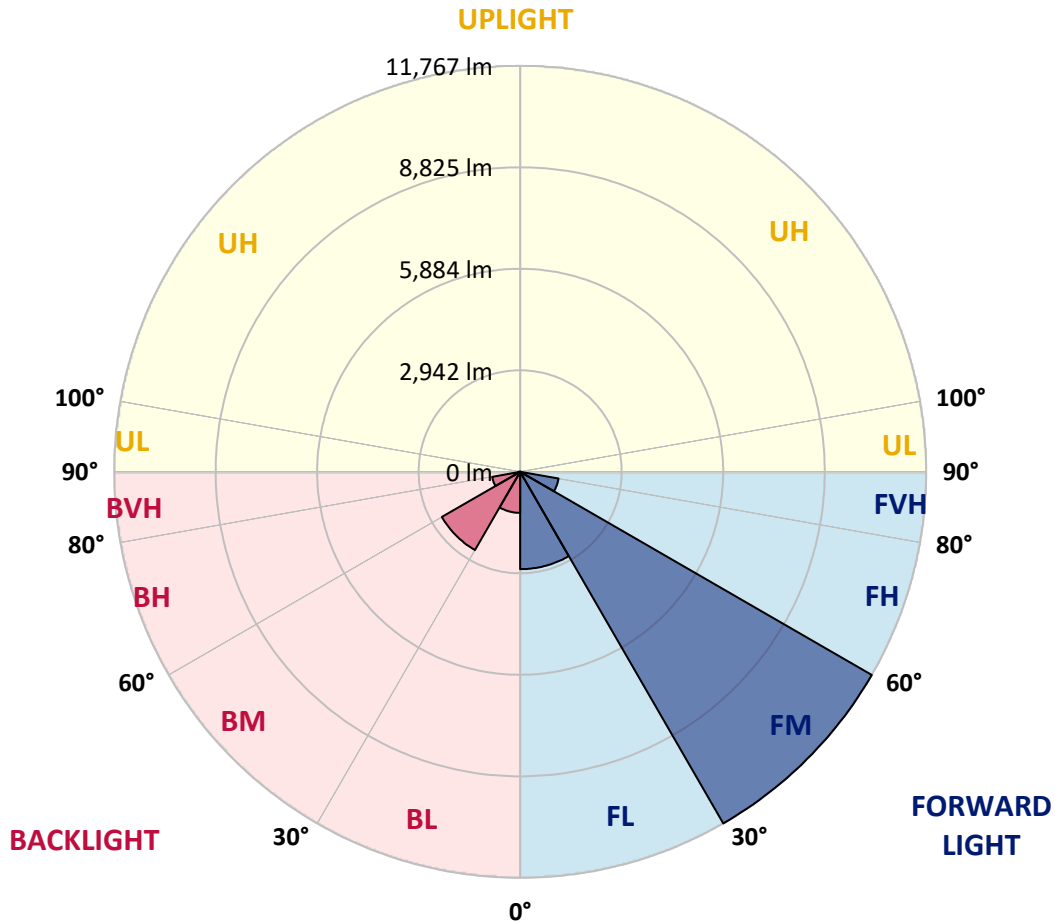


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2821.3	13.8			
FM (30°-60°)	11767.3	57.6			
FH (60°-80°)	1128.2	5.5			G1/1800
FVH (80°-90°)	39.5	0.2			G1/100
BL (0°-30°)	1190.4	5.8	B3/2500		
BM (30°-60°)	2618.6	12.8	B3/5000		
BH (60°-80°)	825.0	4.0	B2/1000		G2/1000
BVH (80°-90°)	48.7	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°	2845.3	2845.3	2845.3	2845.3	2845.3	2845.3	2845.3	2845.3	2845.3	2845.3	2845.3
2.5°	3659.7	3636.9	3568.6	3545.9	3464.9	3318.2	3267.6	3118.4	3055.2	2997.0	2928.7
5°	4628.3	4522.1	4514.5	4385.5	4198.4	4089.6	3765.9	3548.4	3348.6	3247.4	3060.3
7.5°	5245.4	5248.0	5248.0	5141.7	4992.5	4716.8	4426.0	4034.0	3733.0	3583.8	3265.1
10°	5832.2	5781.6	5753.8	5743.7	5642.5	5374.4	5063.3	4577.7	4165.5	3991.0	3419.4
12.5°	6247.0	6204.0	6267.2	6234.3	6161.0	5986.5	5693.1	5139.2	4623.3	4388.1	3667.3
15°	6444.3	6474.6	6525.2	6616.2	6583.4	6517.6	6193.9	5715.9	5116.5	4850.9	3887.3
17.5°	6747.7	6664.3	6725.0	6838.8	6929.8	6899.5	6714.9	6133.2	5604.6	5278.3	4183.2
20°	6960.2	6912.1	6942.5	7074.0	7142.3	7314.3	7218.2	6679.5	6072.5	5728.5	4532.2
22.5°	7567.2	7496.4	7397.7	7418.0	7443.3	7564.7	7587.4	7278.9	6616.2	6252.0	4863.5
25°	8315.8	8250.1	8133.7	8014.8	7941.5	7918.7	7997.1	7749.3	7137.2	6760.4	5220.1
27.5°	9140.3	9029.0	8955.7	8710.4	8513.1	8482.7	8444.8	8310.8	7754.3	7347.2	5622.3
30°	9942.1	9853.5	9754.9	9362.9	9158.0	9125.1	8938.0	8975.9	8424.6	7971.9	6077.5
32.5°	10549.0	10556.6	10331.5	10035.6	9843.4	9668.9	9600.6	9709.4	9284.5	8920.3	6585.9
35°	11039.7	11062.5	10847.5	10579.4	10372.0	10493.4	10463.1	10513.6	10311.3	9866.2	7177.7
37.5°	11517.7	11403.9	11173.7	11044.8	10936.0	11135.8	11393.8	11436.8	11474.7	10951.2	7865.6
40°	11596.1	11606.2	11472.2	11563.2	11426.7	11727.6	12327.0	12271.4	12425.7	11967.9	8611.7
42.5°	11484.8	11507.6	11560.7	11689.7	12018.5	12380.1	13270.4	13042.8	13229.9	12822.7	9337.6
45°	11302.7	11209.2	11274.9	11765.6	12334.6	13138.9	14132.8	13955.8	13895.1	13553.7	10202.6
47.5°	10432.7	10528.8	10733.7	11338.1	12193.0	13270.4	14744.9	14704.4	14886.5	14646.3	10989.1
50°	9226.3	9188.4	9582.9	10263.3	11366.0	13012.4	14712.0	15078.7	15470.8	15136.9	11340.7
52.5°	6909.6	7111.9	7450.8	8295.6	9868.7	11606.2	13993.7	14605.8	14924.5	14853.6	11057.4
55°	4367.8	4428.5	4633.4	5637.5	7053.8	9314.8	11995.7	13414.6	13983.6	14249.2	10796.9
57.5°	2121.9	2008.1	2258.5	3065.3	4074.4	6264.7	9251.6	11684.6	12921.4	13401.9	10230.4
60°	1107.8	1150.8	1249.4	1537.7	2106.8	3252.5	5766.4	7787.2	9676.5	10415.0	7754.3
62.5°	918.1	933.3	999.0	1143.2	1401.1	1871.6	2943.9	3796.2	4934.4	5599.5	4410.8
65°	779.0	786.6	857.4	953.5	1117.9	1317.7	1515.0	1585.8	1919.6	1970.2	1568.1
67.5°	650.0	657.6	733.5	824.5	930.7	983.8	1034.4	1029.4	1067.3	1052.1	1049.6
70°	500.8	508.4	586.8	682.9	736.0	705.6	862.4	897.8	913.0	925.7	945.9
72.5°	361.7	376.8	437.5	505.8	478.0	548.8	710.7	763.8	784.0	791.6	816.9
75°	263.0	268.1	283.3	263.0	303.5	381.9	500.8	566.5	591.8	599.4	637.3
77.5°	116.3	118.9	121.4	151.7	194.7	237.7	298.4	351.6	387.0	397.1	407.2
80°	60.7	63.2	78.4	103.7	139.1	174.5	217.5	247.9	270.6	273.1	283.3
82.5°	37.9	40.5	55.6	73.3	98.6	129.0	159.3	184.6	202.3	204.9	207.4
85°	17.7	22.8	32.9	45.5	65.8	83.5	86.0	73.3	78.4	80.9	75.9
87.5°	5.1	7.6	10.1	7.6	10.1	10.1	12.6	15.2	15.2	15.2	17.7
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°	2845.3	2845.3	2845.3	2845.3	2845.3	2845.3	2845.3	2845.3	2845.3	2845.3	2845.3
2.5°	2890.8	2868.0	2779.5	2746.6	2660.7	2675.8	2630.3	2627.8	2617.7	2615.1	2612.6
5°	2961.6	2890.8	2784.6	2703.7	2655.6	2650.5	2617.7	2617.7	2627.8	2635.4	2617.7
7.5°	3078.0	2997.0	2817.5	2741.6	2698.6	2691.0	2668.2	2650.5	2673.3	2665.7	2645.5
10°	3212.0	3070.4	2880.7	2814.9	2744.1	2726.4	2726.4	2734.0	2696.1	2708.7	2688.5
12.5°	3361.2	3171.5	2961.6	2885.7	2802.3	2792.2	2787.1	2731.5	2751.7	2741.6	2691.0
15°	3550.9	3287.9	3065.3	2936.3	2865.5	2820.0	2754.2	2744.1	2731.5	2706.2	2683.4
17.5°	3755.8	3414.3	3113.4	2951.5	2845.3	2812.4	2761.8	2708.7	2670.8	2675.8	2658.1
20°	3930.3	3530.7	3131.1	2966.7	2830.1	2766.9	2688.5	2655.6	2615.1	2612.6	2610.1
22.5°	4137.7	3687.5	3156.4	2926.2	2784.6	2718.8	2665.7	2607.5	2579.7	2544.3	2562.0
25°	4385.5	3748.2	3161.4	2903.5	2751.7	2635.4	2607.5	2544.3	2534.2	2483.6	2493.7
27.5°	4565.1	3781.1	3121.0	2832.6	2675.8	2587.3	2536.7	2491.2	2473.5	2435.6	2425.4
30°	4805.4	3831.6	3035.0	2744.1	2600.0	2501.3	2471.0	2460.9	2410.3	2369.8	2364.7
32.5°	5078.5	3864.5	2979.3	2653.1	2521.6	2445.7	2460.9	2412.8	2349.6	2314.2	2304.0
35°	5296.0	3877.2	2840.2	2549.4	2468.4	2420.4	2402.7	2392.6	2301.5	2268.6	2243.3
37.5°	5627.3	3849.4	2723.9	2476.0	2410.3	2392.6	2377.4	2309.1	2205.4	2157.4	2121.9
40°	6014.3	3841.8	2574.7	2372.3	2354.6	2374.9	2329.3	2223.1	2079.0	2025.8	2000.6
42.5°	6386.1	3894.9	2481.1	2316.7	2293.9	2301.5	2238.3	2079.0	2008.1	1977.8	1937.3
45°	7008.2	4006.2	2326.8	2230.7	2220.6	2215.5	2139.7	1972.7	1932.3	1894.3	1886.7
47.5°	7569.7	3932.8	2228.2	2142.2	2152.3	2124.5	1962.6	1909.5	1864.0	1826.0	1813.4
50°	7602.6	3758.3	2089.1	2073.9	2076.4	2028.4	1874.1	1838.7	1780.5	1755.2	1737.5
52.5°	7430.6	3472.5	1960.1	1965.1	1972.7	1894.3	1765.3	1740.0	1692.0	1656.6	1646.5
55°	6947.5	3027.4	1833.6	1853.9	1874.1	1724.9	1684.4	1621.2	1583.2	1532.7	1535.2
57.5°	6120.5	2438.1	1656.6	1689.5	1732.5	1568.1	1537.7	1459.3	1403.7	1363.2	1358.1
60°	4102.3	1735.0	1391.0	1403.7	1499.8	1434.0	1431.5	1353.1	1277.2	1241.8	1221.6
62.5°	2420.4	1325.3	1201.3	1188.7	1186.2	1224.1	1287.3	1259.5	1160.9	1092.6	1112.8
65°	1267.1	1145.7	1117.9	1074.9	1049.6	1039.5	1087.5	1100.2	1034.4	961.1	956.0
67.5°	1064.8	1064.8	1042.0	1026.8	991.4	948.4	918.1	877.6	867.5	847.3	822.0
70°	968.7	994.0	986.4	951.0	920.6	872.6	794.2	728.4	665.2	642.4	657.6
72.5°	844.7	870.0	870.0	852.3	811.9	738.5	662.6	586.8	533.6	493.2	488.1
75°	650.0	662.6	693.0	672.8	619.6	574.1	495.7	417.3	366.7	328.8	321.2
77.5°	414.8	435.0	435.0	432.5	394.5	351.6	301.0	245.3	207.4	179.6	172.0
80°	275.7	288.3	298.4	288.3	263.0	230.2	192.2	154.3	126.5	103.7	98.6
82.5°	202.3	217.5	225.1	215.0	189.7	164.4	136.6	108.8	80.9	63.2	58.2
85°	78.4	80.9	91.0	108.8	106.2	103.7	83.5	60.7	45.5	32.9	30.3
87.5°	20.2	17.7	20.2	20.2	17.7	15.2	15.2	15.2	15.2	7.6	10.1
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)