

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: P527934

Luminaire Tested: **GALN-SA3A-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9966 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

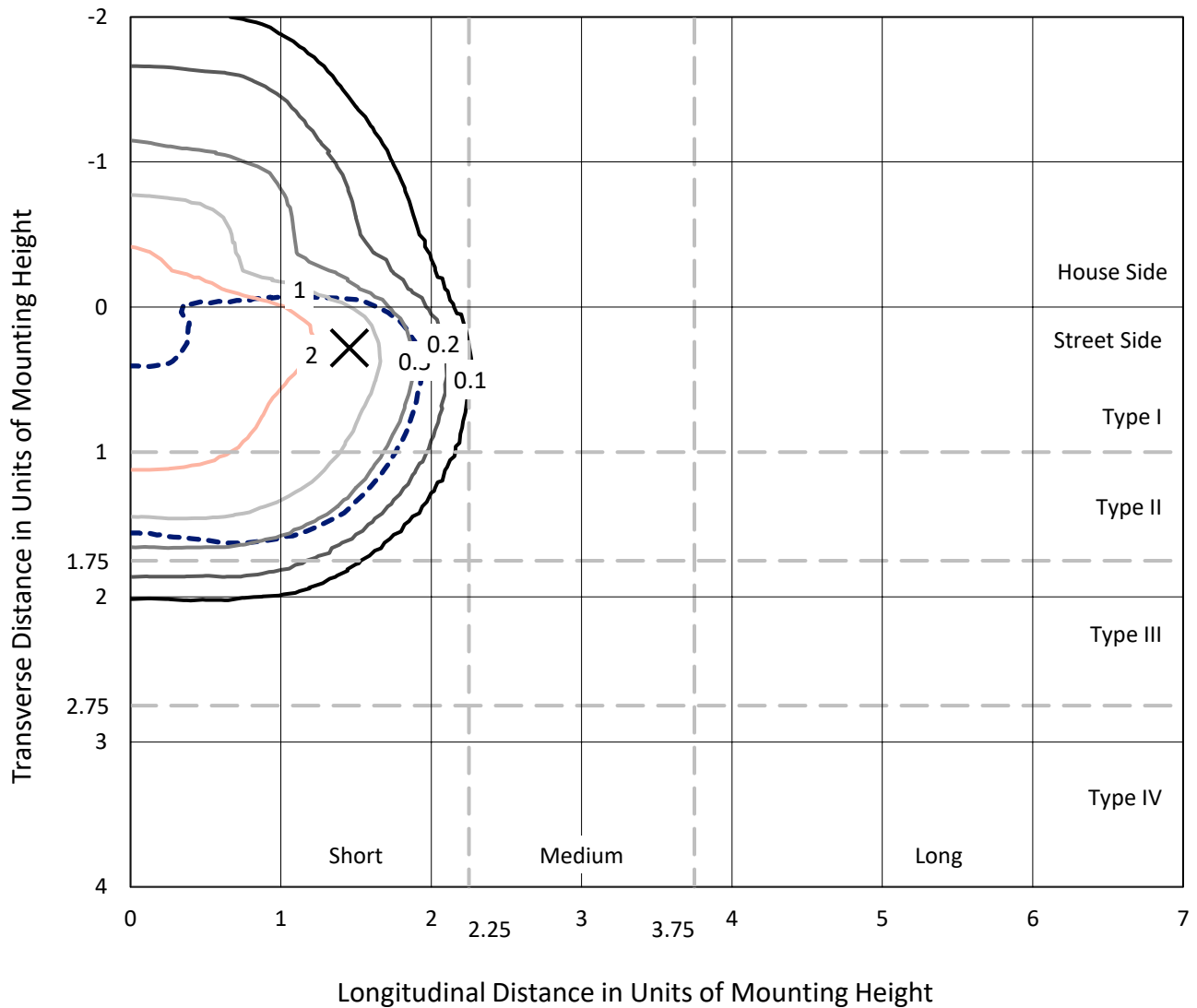
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527934
 CATALOG NUMBER: GALN-SA3A-727-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

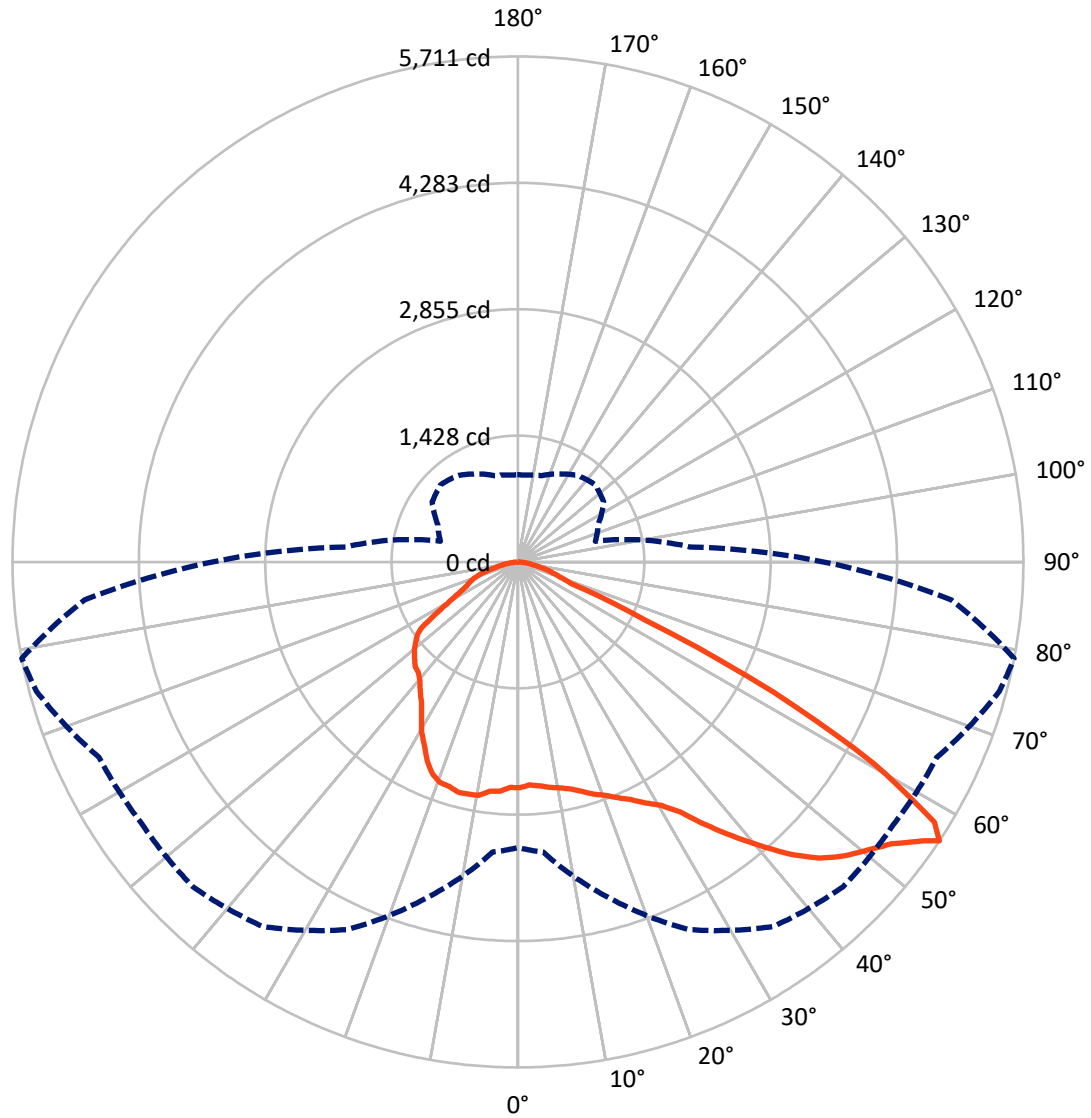
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

REPORT NUMBER: P527934
CATALOG NUMBER: GALN-SA3A-727-U-T3R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P527934
 CATALOG NUMBER: GALN-SA3A-727-U-T3R-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2943.2	0.0	2943.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	7022.8	0.0	7022.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	9966.0	0.0	9966.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.8	2.3
10°-20°	634.5	6.4
20°-30°	1085.5	10.9
30°-40°	1663.6	16.7
40°-50°	2248.3	22.6
50°-60°	2582.3	25.9
60°-70°	1177.1	11.8
70°-80°	290.2	2.9
80°-90°	52.7	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°	9966.0	100.0
0°-180°	9966.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527934

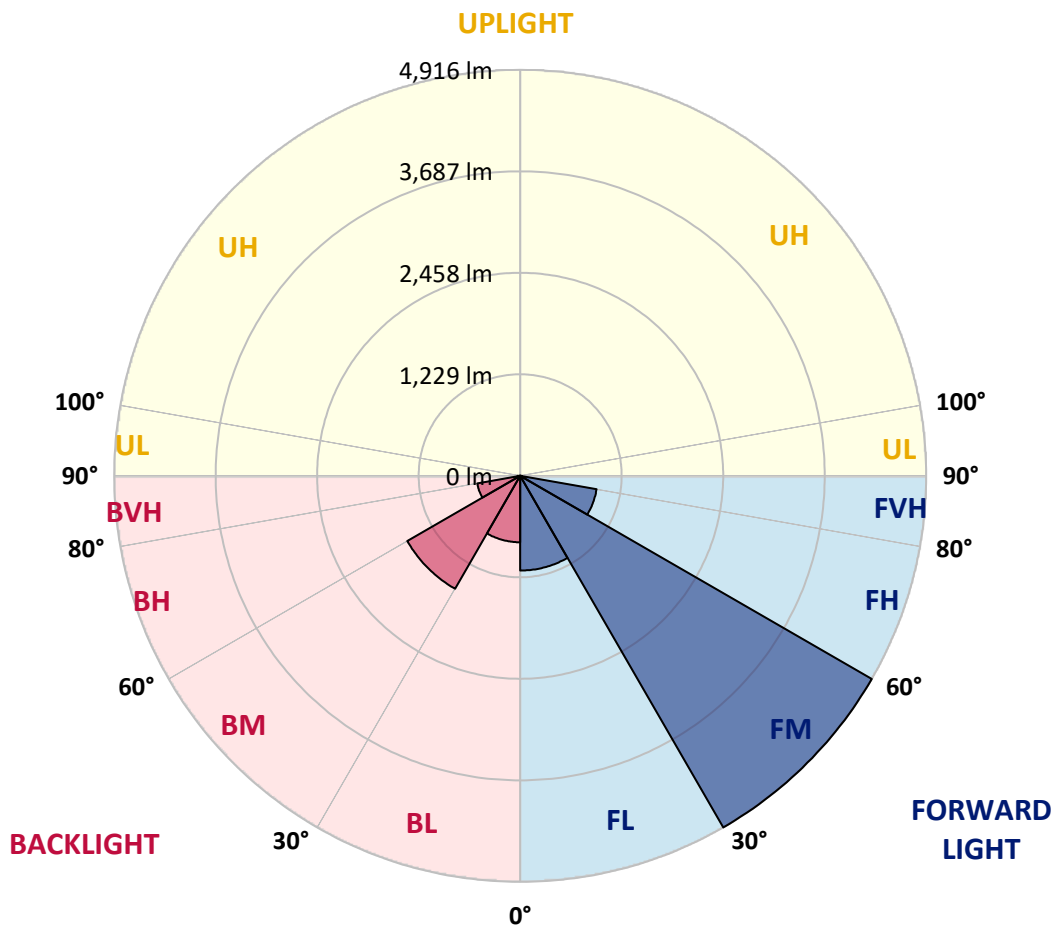
CATALOG NUMBER: GALN-SA3A-727-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1146.7	11.5			
FM (30°-60°)	4915.5	49.3			
FH (60°-80°)	939.6	9.4			G1/1800
FVH (80°-90°)	21.1	0.2			G1/100
BL (0°-30°)	805.1	8.1	B2/1000		
BM (30°-60°)	1578.7	15.8	B2/2500		
BH (60°-80°)	527.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	31.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P527934

CATALOG NUMBER: GALN-SA3A-727-U-T3R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2549.9	2549.9	2549.9	2549.9	2549.9	2549.9	2549.9	2549.9	2549.9	2549.9	2549.9
2.5°	2425.8	2419.6	2434.5	2445.6	2459.3	2476.7	2485.4	2490.3	2533.8	2522.6	2556.1
5°	2373.6	2357.5	2368.7	2377.3	2400.9	2422.0	2445.6	2482.9	2522.6	2540.0	2580.9
7.5°	2327.7	2319.0	2316.5	2322.7	2355.0	2382.3	2423.3	2477.9	2542.5	2571.0	2594.6
10°	2252.0	2239.5	2258.2	2299.1	2307.8	2364.9	2412.1	2490.3	2546.2	2595.8	2665.4
12.5°	2218.4	2206.0	2209.8	2233.3	2294.2	2348.8	2404.7	2492.8	2610.7	2630.6	2723.7
15°	2271.8	2259.4	2263.1	2256.9	2315.3	2343.8	2432.0	2542.5	2655.4	2688.9	2788.3
17.5°	2393.5	2394.7	2378.6	2364.9	2351.3	2412.1	2472.9	2572.3	2672.8	2757.2	2831.7
20°	2625.6	2584.7	2552.4	2475.4	2454.3	2480.4	2557.4	2652.9	2743.6	2813.1	2897.5
22.5°	2804.4	2808.1	2762.2	2635.6	2589.6	2600.8	2666.6	2744.8	2844.1	2893.8	2990.6
25°	3063.9	3037.8	2988.1	2887.6	2784.5	2793.2	2841.6	2912.4	2939.7	2974.5	3080.0
27.5°	3301.0	3308.4	3210.3	3116.0	2988.1	2963.3	3050.2	3062.6	3016.7	3082.5	3118.5
30°	3541.8	3535.6	3471.0	3360.6	3235.2	3240.1	3278.6	3217.8	3154.5	3190.5	3215.3
32.5°	3791.3	3720.6	3718.1	3618.8	3523.2	3477.3	3430.1	3459.9	3361.8	3369.3	3345.7
35°	3991.2	4001.1	3944.0	3873.3	3826.1	3745.4	3616.3	3669.7	3651.1	3642.4	3540.6
37.5°	4136.5	4098.0	4126.5	4102.9	4058.2	3957.7	3823.6	3874.5	3883.2	3925.4	3807.5
40°	4255.6	4239.5	4315.2	4327.6	4296.6	4079.4	3838.5	3990.0	4120.3	4212.2	4071.9
42.5°	4312.7	4347.5	4427.0	4522.5	4453.0	4220.9	3915.5	4078.1	4368.6	4513.9	4322.7
45°	4389.7	4345.0	4463.0	4638.0	4639.2	4340.1	3990.0	4197.3	4562.3	4773.3	4494.0
47.5°	4311.5	4333.8	4455.5	4677.7	4734.8	4465.4	4191.1	4366.1	4775.8	4963.3	4652.9
50°	4136.5	4181.1	4403.4	4634.3	4806.8	4598.3	4422.0	4548.6	4973.2	5115.9	4679.0
52.5°	3954.0	3978.8	4326.4	4667.8	4839.1	4769.6	4731.1	4800.6	5214.0	5288.5	4711.2
55°	3457.4	3575.3	4071.9	4652.9	4996.8	5078.7	5048.9	5150.7	5487.1	5561.6	4887.5
56°	3227.7	3289.8	3919.2	4583.4	5027.8	5191.7	5176.8	5222.7	5632.4	5710.6	4914.8
57.5°	2803.2	2808.1	3341.9	4275.5	4911.1	5225.2	5210.3	5246.3	5603.8	5550.4	4675.2
60°	1754.1	1831.1	2274.3	3288.6	4176.2	4847.8	4932.2	4643.0	4724.9	4611.9	3637.4
62.5°	908.7	897.6	1191.8	1923.0	2772.1	3471.0	3549.3	3535.6	3409.0	3243.9	2376.1
65°	453.1	455.6	623.2	952.2	1420.2	1817.5	2036.0	2059.5	1723.1	1585.3	1127.2
67.5°	329.0	341.4	448.2	582.2	669.1	748.6	917.4	900.0	681.5	648.0	600.9
70°	255.7	266.9	363.7	444.4	403.5	403.5	439.5	454.4	485.4	499.1	515.2
72.5°	186.2	194.9	278.1	306.6	264.4	284.3	329.0	363.7	396.0	401.0	419.6
75°	127.9	135.3	182.5	168.8	158.9	196.1	240.8	273.1	296.7	309.1	320.3
77.5°	83.2	85.7	104.3	88.1	101.8	126.6	156.4	183.7	207.3	217.3	219.7
80°	37.2	41.0	44.7	55.9	70.8	90.6	111.7	134.1	149.0	152.7	160.1
82.5°	21.1	21.1	27.3	39.7	52.1	65.8	80.7	96.8	114.2	117.9	116.7
85°	11.2	11.2	16.1	23.6	32.3	38.5	37.2	38.5	41.0	47.2	45.9
87.5°	3.7	3.7	5.0	5.0	6.2	7.4	6.2	8.7	11.2	11.2	11.2
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: P527934

CATALOG NUMBER: GALN-SA3A-727-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2549.9	2549.9	2549.9	2549.9	2549.9	2549.9	2549.9	2549.9	2549.9	2549.9	2549.9
2.5°	2546.2	2557.4	2542.5	2574.7	2574.7	2568.5	2537.5	2547.4	2554.9	2554.9	2561.1
5°	2594.6	2590.9	2600.8	2562.3	2538.7	2530.0	2479.1	2454.3	2433.2	2432.0	2413.3
7.5°	2621.9	2612.0	2608.3	2579.7	2475.4	2412.1	2302.9	2239.5	2225.9	2177.5	2196.1
10°	2665.4	2684.0	2665.4	2510.2	2364.9	2219.7	2112.9	2014.8	1976.4	1945.3	1926.7
12.5°	2754.7	2746.1	2638.0	2428.2	2224.6	2052.1	1893.2	1790.1	1751.7	1724.4	1721.9
15°	2830.5	2787.0	2621.9	2299.1	2006.2	1822.4	1692.1	1618.8	1601.4	1603.9	1615.1
17.5°	2856.5	2826.7	2537.5	2165.1	1843.5	1627.5	1566.7	1555.5	1571.7	1590.3	1595.2
20°	2897.5	2850.3	2502.7	1982.6	1642.4	1505.9	1502.1	1541.9	1571.7	1599.0	1602.7
22.5°	2983.2	2864.0	2389.8	1810.0	1504.6	1469.9	1505.9	1539.4	1585.3	1607.7	1587.8
25°	3008.0	2834.2	2230.9	1602.7	1417.7	1447.5	1486.0	1531.9	1564.2	1576.6	1585.3
27.5°	3029.1	2788.3	2016.1	1464.9	1390.4	1446.3	1486.0	1524.5	1541.9	1553.0	1563.0
30°	3088.7	2774.6	1829.9	1373.0	1373.0	1421.4	1472.3	1482.3	1505.9	1519.5	1536.9
32.5°	3118.5	2680.3	1638.7	1314.7	1355.6	1433.9	1437.6	1456.2	1457.4	1468.6	1450.0
35°	3196.7	2613.2	1461.2	1272.5	1363.1	1421.4	1440.1	1428.9	1368.1	1338.3	1344.5
37.5°	3253.8	2579.7	1333.3	1267.5	1364.3	1435.1	1445.0	1360.6	1297.3	1247.6	1260.1
40°	3407.7	2496.5	1236.5	1258.8	1375.5	1450.0	1422.7	1330.8	1216.6	1165.7	1157.0
42.5°	3525.7	2436.9	1175.6	1248.9	1384.2	1471.1	1411.5	1271.2	1154.5	1107.4	1119.8
45°	3662.2	2423.3	1143.4	1251.4	1399.1	1482.3	1397.9	1225.3	1101.2	1082.5	1078.8
47.5°	3710.6	2325.2	1108.6	1230.3	1395.4	1478.5	1351.9	1190.5	1081.3	1083.8	1093.7
50°	3630.0	2224.6	1082.5	1186.8	1370.5	1445.0	1279.9	1144.6	1070.1	1101.2	1118.5
52.5°	3526.9	2121.6	1029.1	1128.5	1319.6	1392.9	1246.4	1142.1	1058.9	1049.0	1052.7
55°	3557.9	2037.2	954.7	1049.0	1237.7	1296.1	1209.2	1118.5	1031.6	994.4	1006.8
56°	3457.4	1950.3	906.2	999.4	1181.8	1234.0	1190.5	1097.4	1009.3	984.5	984.5
57.5°	3173.1	1658.6	842.9	919.9	1063.9	1126.0	1154.5	1085.0	984.5	941.0	942.2
60°	2340.1	1179.4	756.0	810.7	881.4	931.1	1063.9	1050.3	922.4	892.6	881.4
62.5°	1442.5	861.6	694.0	715.1	751.1	792.0	928.6	950.9	856.6	824.3	816.9
65°	808.2	659.2	646.8	655.5	672.9	694.0	770.9	820.6	756.0	706.4	703.9
67.5°	590.9	589.7	599.6	607.1	614.5	614.5	633.1	653.0	644.3	604.6	600.9
70°	525.1	528.9	536.3	537.5	540.0	531.3	516.4	510.2	520.2	495.3	490.4
72.5°	433.3	445.7	454.4	455.6	442.0	430.8	410.9	389.8	382.4	377.4	376.2
75°	332.7	341.4	345.1	343.9	338.9	322.8	299.2	278.1	264.4	249.5	257.0
77.5°	224.7	237.1	243.3	243.3	235.9	211.0	199.9	183.7	170.1	153.9	156.4
80°	157.7	166.4	176.3	175.0	162.6	150.2	134.1	119.2	108.0	95.6	94.3
82.5°	117.9	122.9	127.9	125.4	116.7	104.3	93.1	79.5	67.0	58.3	58.3
85°	42.2	45.9	55.9	58.3	63.3	63.3	53.4	44.7	36.0	29.8	29.8
87.5°	12.4	12.4	13.7	13.7	12.4	13.7	11.2	12.4	13.7	8.7	8.7
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)