

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: P458647

Luminaire Tested: **GALN-SA2A-735-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458647  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2A-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8616 lumens  
Efficiency: N/A  
Efficacy: 136.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

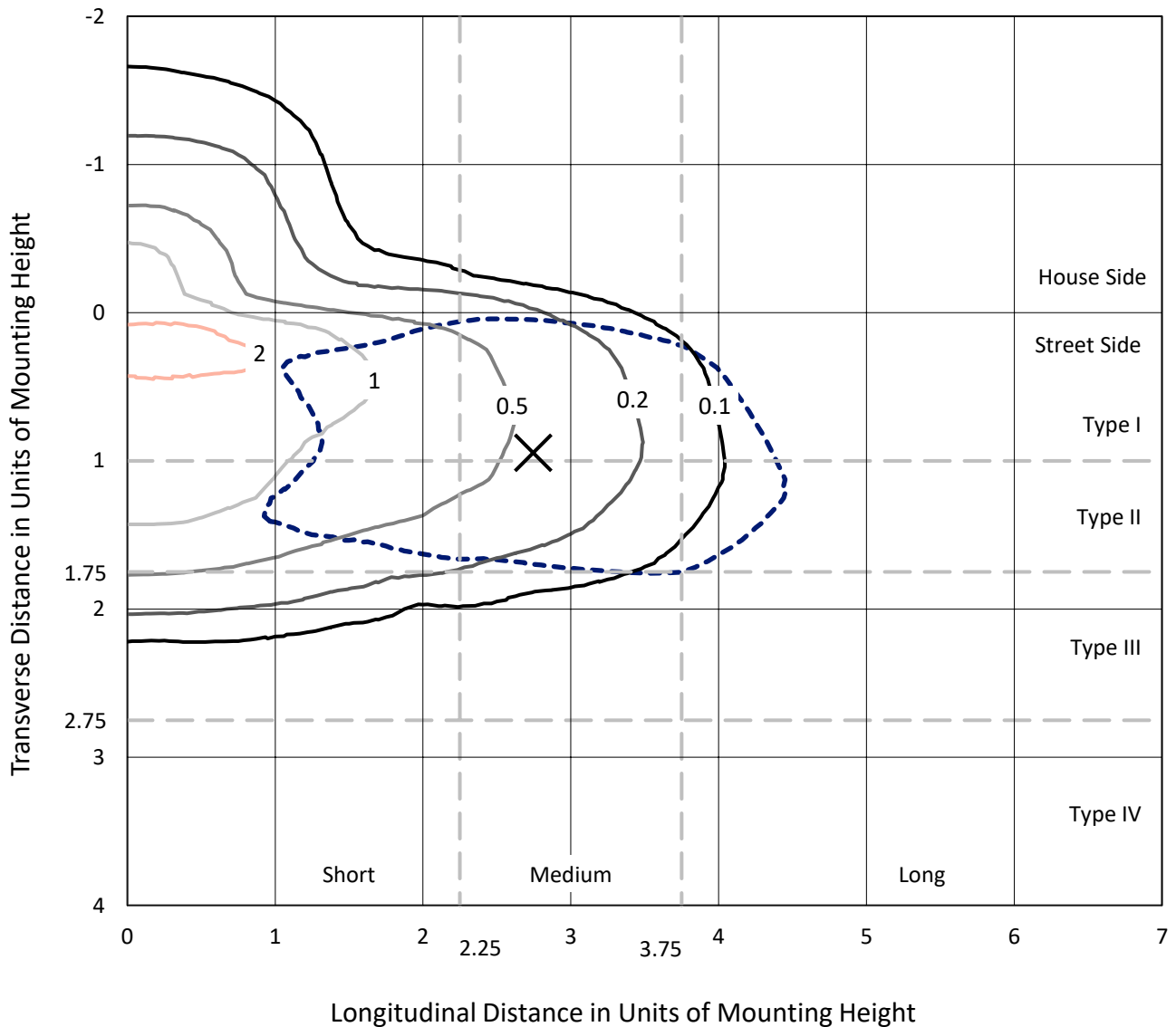
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

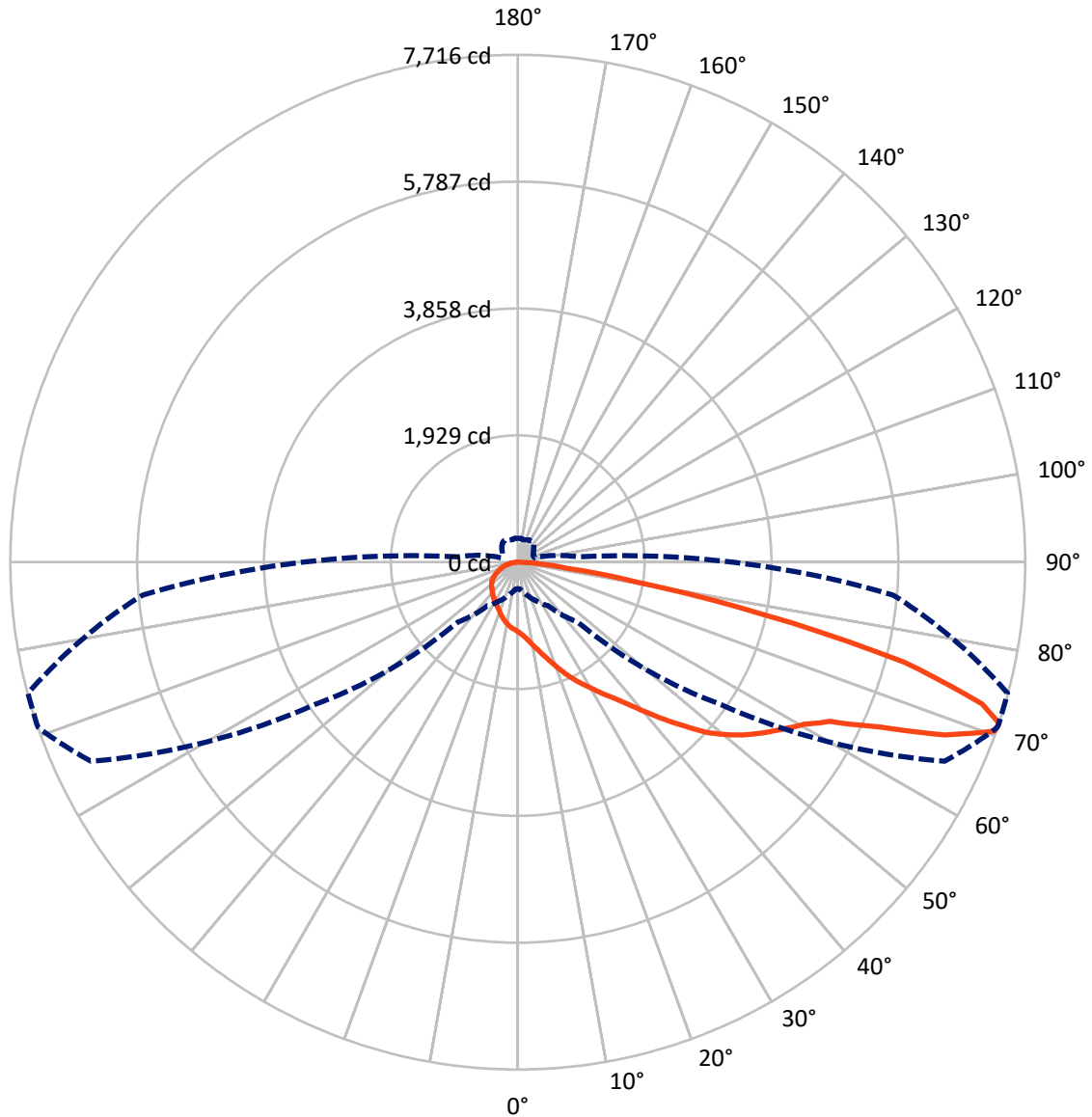
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1549.6	0.0	1549.6
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	7066.4	0.0	7066.4
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	8616.0	0.0	8616.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.2	1.2
10°-20°	345.0	4.0
20°-30°	602.8	7.0
30°-40°	896.6	10.4
40°-50°	1321.1	15.3
50°-60°	1849.5	21.5
60°-70°	2068.6	24.0
70°-80°	1263.6	14.7
80°-90°	162.5	1.9
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°	8616.0	100.0
0°-180°	8616.0	100.0

**Coefficient of Utilization**



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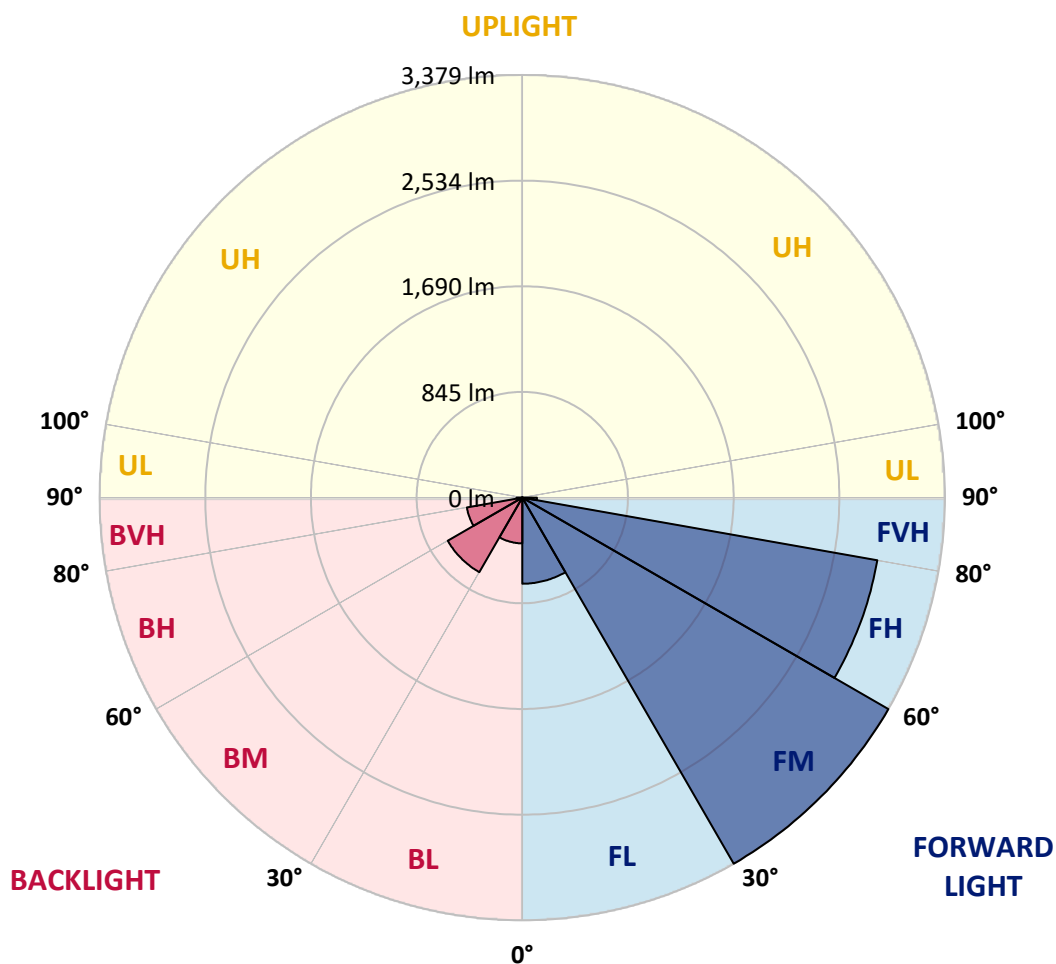
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	688.4	8.0			
FM (30°-60°)	3379.0	39.2			
FH (60°-80°)	2882.0	33.4			G2/5000
FVH (80°-90°)	117.0	1.4			G2/225
BL (0°-30°)	365.5	4.2	B1/500		
BM (30°-60°)	688.2	8.0	B1/1000		
BH (60°-80°)	450.2	5.2	B1/500		G1/500
BVH (80°-90°)	45.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4
2.5°	1173.9	1168.3	1168.7	1160.7	1150.3	1138.9	1122.8	1108.6	1097.2	1090.6	1071.2
5°	1300.9	1295.2	1288.1	1270.5	1263.0	1235.0	1199.5	1167.3	1142.7	1129.0	1090.1
7.5°	1403.6	1402.2	1400.3	1390.4	1370.9	1332.1	1301.8	1245.9	1209.5	1183.4	1117.1
10°	1467.1	1469.4	1470.9	1472.8	1464.7	1444.3	1402.7	1332.1	1285.7	1252.5	1152.2
12.5°	1499.3	1501.6	1509.7	1527.2	1538.1	1535.7	1501.6	1432.5	1368.6	1325.0	1189.6
15°	1519.2	1522.9	1537.2	1560.4	1596.8	1620.0	1603.5	1539.5	1469.4	1417.8	1234.1
17.5°	1540.9	1545.2	1560.8	1594.0	1641.8	1692.0	1710.0	1655.1	1578.8	1517.3	1283.8
20°	1553.3	1558.9	1581.2	1624.8	1680.6	1753.6	1813.2	1784.3	1701.0	1632.8	1341.1
22.5°	1573.1	1577.9	1596.8	1643.2	1710.0	1801.4	1916.5	1910.3	1836.9	1748.8	1404.1
25°	1627.1	1634.7	1644.2	1672.1	1736.5	1850.2	2002.2	2044.8	1968.6	1870.1	1461.9
27.5°	1728.9	1735.1	1734.6	1738.4	1774.9	1892.3	2076.5	2177.9	2099.3	1992.7	1517.7
30°	1845.0	1847.3	1849.2	1840.7	1848.8	1935.4	2144.7	2309.5	2230.9	2118.7	1566.5
32.5°	1986.1	1990.8	1974.7	1952.9	1946.3	1999.3	2201.1	2441.2	2386.7	2246.5	1614.8
35°	2152.8	2165.1	2132.4	2094.1	2067.1	2091.2	2276.8	2575.7	2546.3	2409.9	1678.7
37.5°	2343.1	2358.3	2328.0	2252.7	2214.3	2221.0	2375.8	2741.9	2748.0	2596.0	1773.9
40°	2498.9	2518.8	2519.8	2413.2	2355.0	2362.6	2501.3	2920.9	2991.4	2826.2	1886.2
42.5°	2601.7	2621.1	2641.5	2579.0	2517.9	2561.0	2647.6	3115.0	3265.1	3105.6	2042.9
45°	2714.4	2731.9	2743.3	2714.9	2680.8	2792.5	2824.3	3321.5	3556.9	3417.6	2214.3
47.5°	2845.1	2864.5	2875.4	2848.4	2835.6	2995.7	3014.6	3514.2	3868.5	3720.7	2403.8
50°	3019.4	3034.1	3028.4	3011.3	3008.5	3151.5	3197.4	3694.7	4125.6	4047.0	2600.3
52.5°	3236.3	3253.8	3259.9	3235.8	3224.9	3262.8	3344.7	3859.0	4359.5	4327.3	2810.1
55°	3367.4	3395.4	3489.1	3527.0	3553.1	3406.7	3503.3	4040.4	4569.3	4622.8	3035.5
57.5°	3199.3	3235.3	3445.1	3634.5	3879.3	3766.6	3728.3	4229.8	4779.1	4909.3	3305.4
60°	2789.2	2797.3	3067.7	3416.7	3909.2	4229.3	4197.6	4531.0	5006.4	5198.2	3661.0
62.5°	1934.9	1952.0	2271.6	2828.5	3540.8	4396.0	4996.0	5050.9	5332.2	5630.5	4182.4
65°	997.8	975.5	1266.8	1777.7	2669.4	4000.1	5642.9	6007.0	6038.7	6306.8	4916.4
67.5°	614.2	624.1	760.5	1038.0	1578.4	2907.1	5575.1	7175.3	7008.1	7136.9	5597.9
70°	461.2	473.6	567.3	710.3	962.3	1662.2	4483.6	7458.5	7691.9	7658.8	5805.3
71°	401.1	413.9	511.4	646.4	808.4	1282.9	3777.5	7162.0	7715.6	7709.9	5727.2
72.5°	341.9	350.0	426.2	547.4	681.4	899.3	2838.0	6423.3	7386.5	7575.4	5448.2
75°	268.5	274.7	308.8	417.7	536.5	552.2	1522.9	4815.6	6066.7	6426.6	4535.7
77.5°	218.8	223.0	240.6	310.2	413.9	391.2	798.9	3134.4	3800.7	4163.0	2671.8
80°	173.8	178.5	188.9	210.3	310.2	278.9	381.2	1588.3	1836.0	1832.2	1066.4
82.5°	135.0	136.4	148.7	154.4	212.2	197.9	206.5	672.4	744.9	769.5	385.0
85°	85.2	89.5	131.6	118.4	126.9	116.0	101.8	267.1	329.1	324.4	153.9
87.5°	26.0	27.5	44.5	50.2	56.4	50.7	37.4	78.6	96.1	104.2	38.4
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°	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4
2.5°	1063.6	1058.4	1039.9	1024.8	1010.6	994.9	981.7	977.9	974.6	973.2	972.7
5°	1073.5	1057.9	1021.5	991.6	967.9	946.2	932.4	926.3	920.1	920.1	922.0
7.5°	1087.8	1059.3	1003.0	958.5	928.6	908.3	898.3	897.4	898.8	900.2	900.7
10°	1103.4	1058.4	976.0	920.6	894.1	884.6	885.1	893.1	900.7	906.4	907.3
12.5°	1118.5	1052.7	944.3	885.1	868.0	869.9	883.2	901.2	915.9	923.9	924.4
15°	1135.6	1043.7	905.9	851.4	845.8	860.4	885.1	912.5	934.8	948.1	949.5
17.5°	1149.8	1028.6	865.7	818.8	825.9	852.9	887.0	922.5	949.5	966.0	968.9
20°	1165.9	1009.1	824.0	787.5	807.9	844.3	883.2	921.5	949.5	965.6	969.4
22.5°	1178.7	981.7	784.2	761.9	791.8	833.9	870.4	901.2	923.9	932.4	938.1
25°	1183.9	947.1	746.8	741.1	779.0	816.9	841.5	859.0	866.1	865.2	867.5
27.5°	1181.0	907.3	714.6	724.5	762.9	790.4	802.7	801.3	788.5	776.6	782.3
30°	1169.2	860.0	687.6	707.5	742.1	757.2	755.3	736.8	712.7	690.4	691.9
32.5°	1147.9	808.8	662.5	688.1	712.7	719.3	706.5	682.4	647.8	618.9	614.7
35°	1129.9	760.1	640.2	665.8	683.3	680.0	667.7	636.5	605.2	579.6	575.4
37.5°	1127.1	718.4	618.9	640.7	650.7	645.9	630.8	604.3	592.9	573.5	571.1
40°	1142.2	689.0	597.2	614.2	618.9	615.1	598.6	583.4	593.8	589.1	589.1
42.5°	1183.4	673.4	577.7	587.7	591.5	594.3	582.5	569.7	582.5	560.7	553.6
45°	1248.8	673.9	560.2	561.6	573.0	582.9	574.9	556.0	549.3	505.8	497.2
47.5°	1344.9	690.0	546.0	537.0	557.4	573.9	562.6	535.1	505.8	476.9	471.7
50°	1457.1	718.9	533.2	511.4	536.5	562.6	554.1	521.9	491.5	474.0	470.7
52.5°	1581.7	755.3	517.6	483.0	511.0	557.4	556.0	520.0	478.3	466.4	463.6
55°	1735.6	791.3	498.2	449.9	488.2	553.1	550.7	504.3	475.4	466.9	466.0
57.5°	1914.6	843.4	470.2	416.3	462.2	535.6	530.4	494.9	466.0	459.8	459.3
60°	2203.0	924.4	430.5	385.5	435.7	504.8	511.4	478.8	450.8	449.4	448.9
62.5°	2582.3	1038.0	389.3	353.7	404.9	465.0	484.0	457.0	434.7	441.8	442.8
65°	3106.0	1133.7	346.6	326.8	370.8	426.7	457.9	436.6	416.7	430.5	430.5
67.5°	3447.5	1135.6	307.8	298.8	336.2	394.5	430.5	412.5	393.5	416.7	417.7
70°	3376.4	994.9	275.6	269.5	302.6	359.9	400.2	385.9	364.2	385.0	377.4
71°	3261.8	916.8	262.8	258.1	289.3	343.3	385.9	374.1	352.3	366.1	361.8
72.5°	3079.0	796.0	242.0	242.9	269.5	322.5	366.1	353.7	332.0	339.5	338.1
75°	2602.6	695.2	206.9	211.2	231.6	287.0	326.3	316.8	294.6	294.6	293.1
77.5°	1627.1	485.9	171.9	174.3	196.5	245.8	280.3	272.3	251.0	243.9	242.0
80°	607.1	251.0	134.5	137.3	151.1	193.7	232.0	224.5	202.7	194.6	187.1
82.5°	229.7	126.0	99.0	96.6	111.3	147.7	181.8	172.8	155.8	136.4	130.7
85°	86.7	62.5	60.6	58.7	65.4	87.6	112.7	110.8	92.8	79.1	77.7
87.5°	22.7	20.4	23.7	17.5	18.5	16.6	17.0	7.1	3.3	1.4	0.9
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)