

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: P648285

Luminaire Tested: **GALN-SA2B-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648285
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-SA2B-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9010.8 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

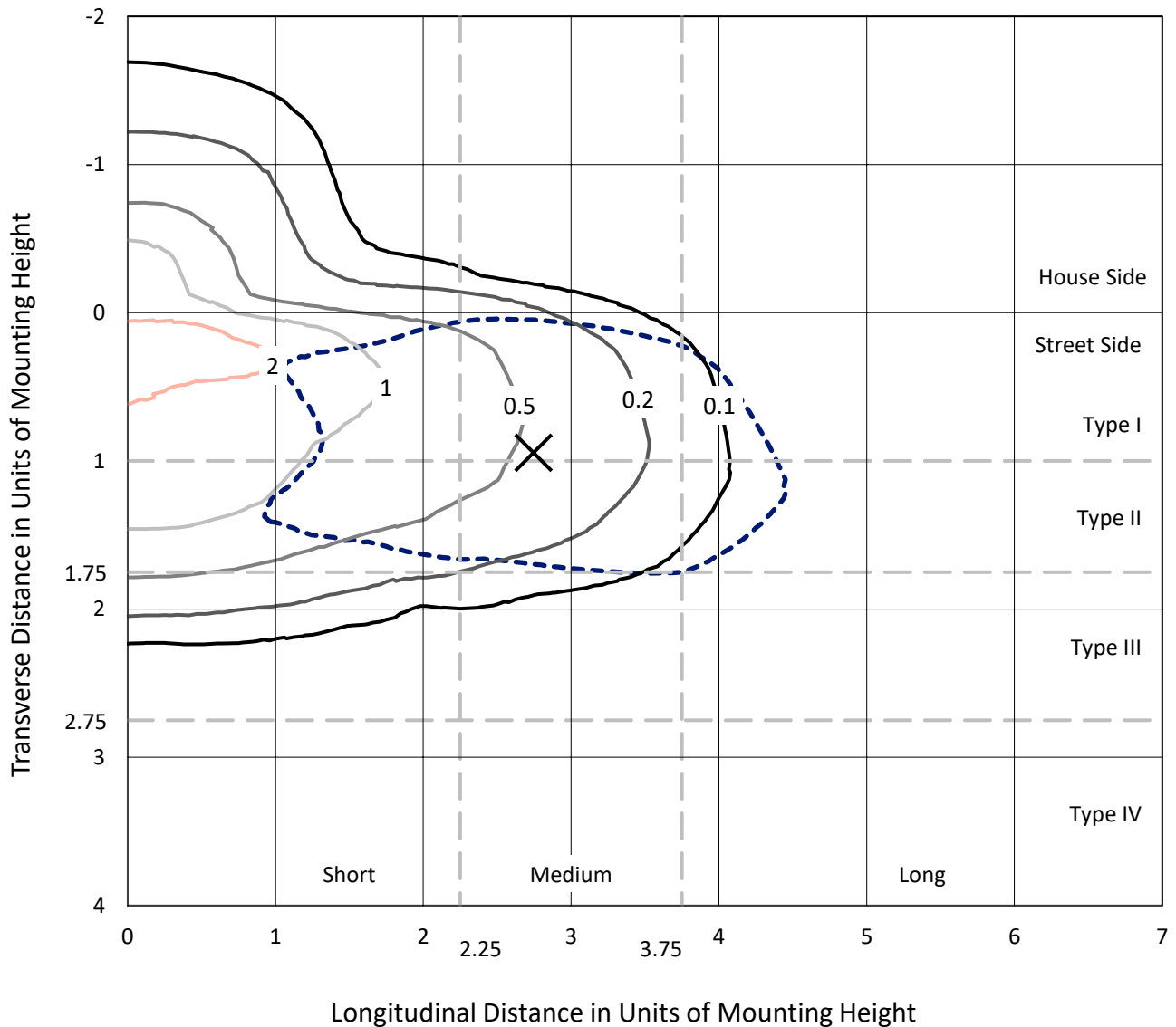
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

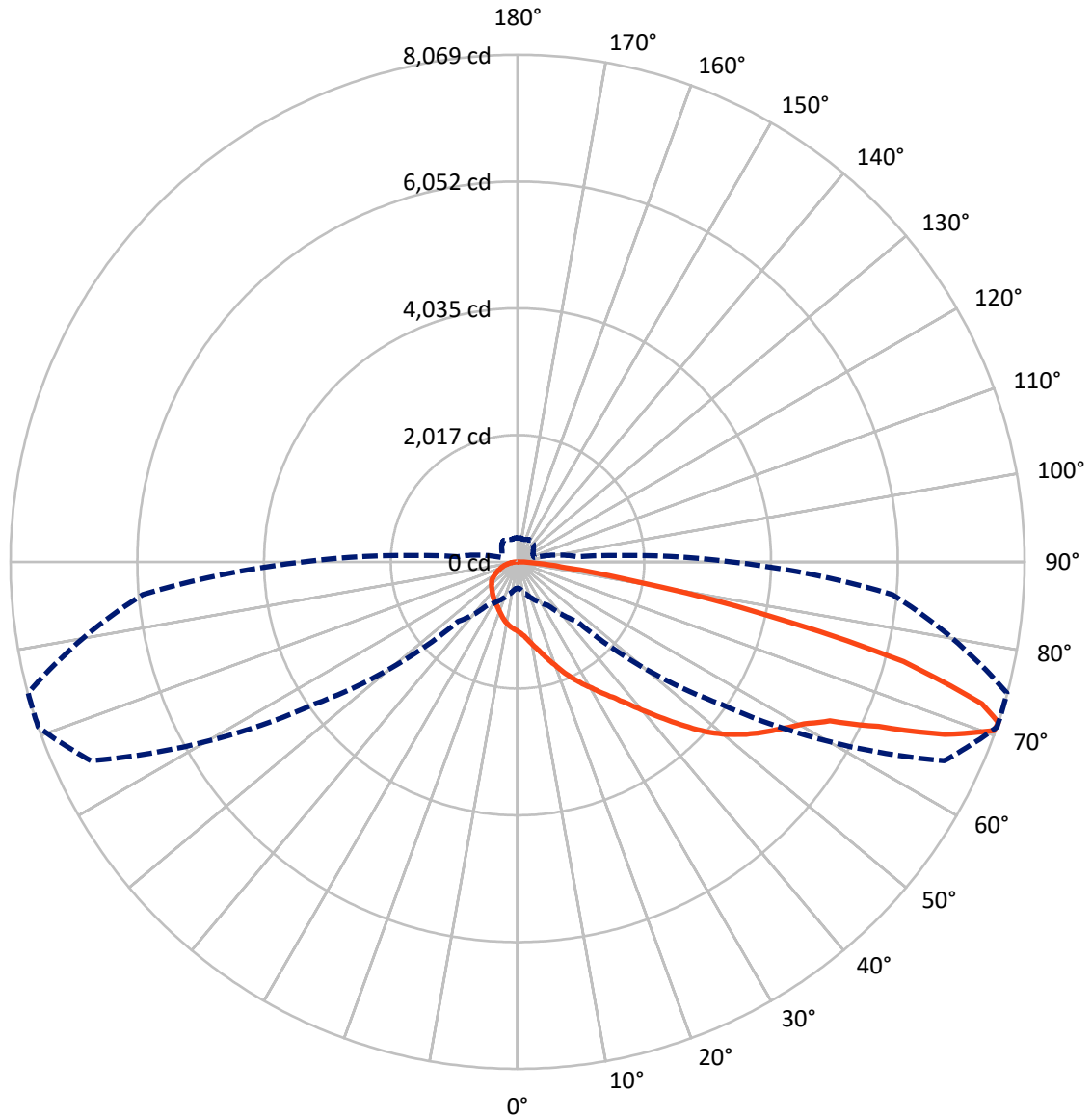
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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
House Side	Lumens	1620.6	0.0	1620.6
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	7390.2	0.0	7390.2
	% Fixture	82.0	0.0	82.0
Total	Lumens	9010.8	0.0	9010.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	1.2
10°-20°	360.8	4.0
20°-30°	630.5	7.0
30°-40°	937.7	10.4
40°-50°	1381.6	15.3
50°-60°	1934.3	21.5
60°-70°	2163.4	24.0
70°-80°	1321.5	14.7
80°-90°	170.0	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°	9010.8	100.0
0°-180°	9010.8	100.0

Coefficient of Utilization

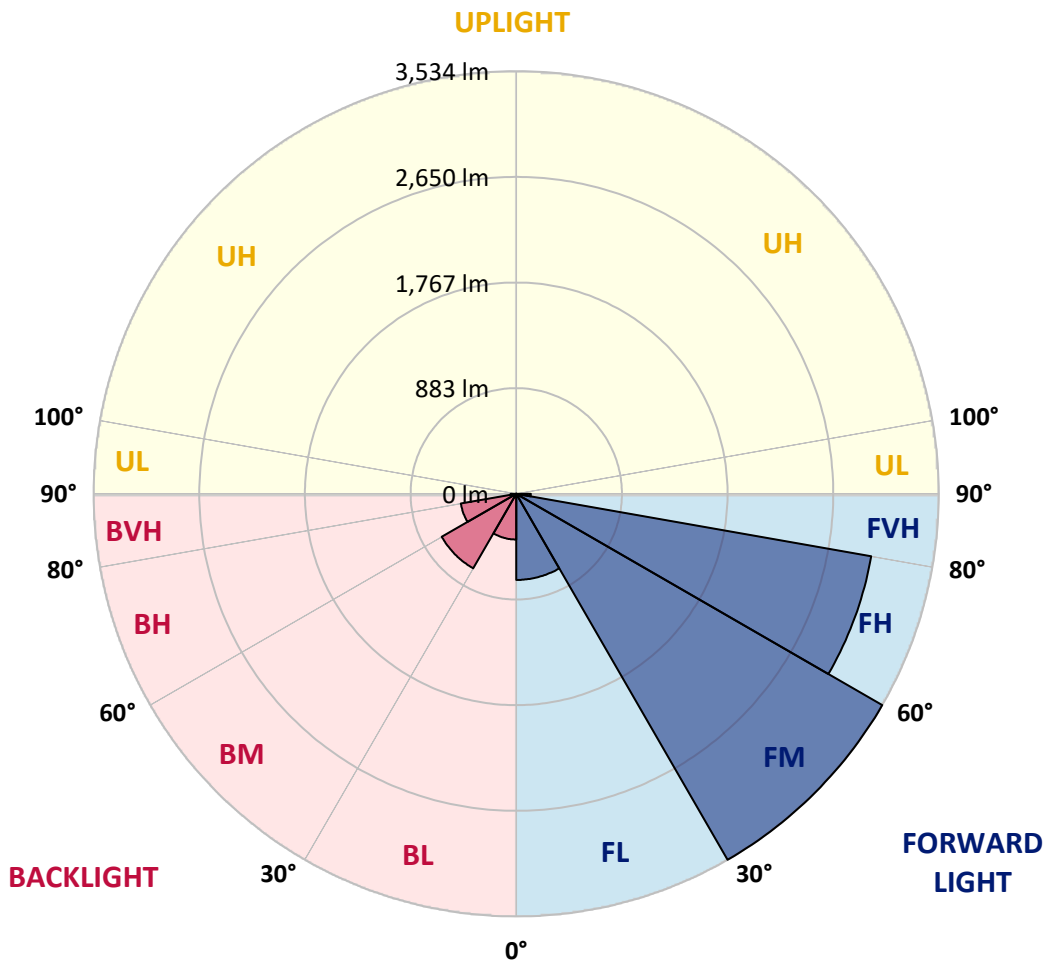


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	720.0	8.0			
FM (30°-60°)	3533.8	39.2			
FH (60°-80°)	3014.1	33.4			G2/5000
FVH (80°-90°)	122.3	1.4			G2/225
BL (0°-30°)	382.3	4.2	B1/500		
BM (30°-60°)	719.8	8.0	B1/1000		
BH (60°-80°)	470.8	5.2	B1/500		G1/500
BVH (80°-90°)	47.7	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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CATALOG NUMBER: GALN-SA2B-835-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1105.9	1105.9	1105.9	1105.9	1105.9	1105.9	1105.9	1105.9	1105.9	1105.9	1105.9
2.5°	1227.7	1221.8	1222.3	1213.9	1203.0	1191.1	1174.3	1159.4	1147.5	1140.6	1120.2
5°	1360.5	1354.5	1347.1	1328.8	1320.8	1291.6	1254.4	1220.8	1195.0	1180.7	1140.0
7.5°	1467.9	1466.4	1464.4	1454.0	1433.8	1393.1	1361.5	1303.0	1264.9	1237.6	1168.3
10°	1534.3	1536.8	1538.3	1540.2	1531.8	1510.5	1467.0	1393.1	1344.6	1310.0	1205.0
12.5°	1568.0	1570.5	1578.8	1597.2	1608.6	1606.1	1570.5	1498.1	1431.2	1385.7	1244.0
15°	1588.8	1592.7	1607.6	1631.9	1670.0	1694.3	1677.0	1610.1	1536.8	1482.8	1290.6
17.5°	1611.6	1616.0	1632.3	1667.0	1717.0	1769.5	1788.4	1730.9	1651.2	1586.7	1342.6
20°	1624.4	1630.4	1653.6	1699.2	1757.7	1833.9	1896.3	1866.1	1779.0	1707.6	1402.5
22.5°	1645.2	1650.2	1670.0	1718.5	1788.4	1883.9	2004.2	1997.8	1921.1	1828.9	1468.4
25°	1701.7	1709.6	1719.5	1748.8	1816.1	1934.9	2093.9	2138.5	2058.7	1955.8	1528.8
27.5°	1808.2	1814.6	1814.1	1818.0	1856.2	1979.0	2171.7	2277.7	2195.5	2084.0	1587.3
30°	1929.5	1932.0	1933.9	1925.0	1933.5	2024.1	2243.0	2415.3	2333.1	2215.7	1638.3
32.5°	2077.1	2082.0	2065.2	2042.4	2035.5	2090.9	2301.9	2553.0	2496.0	2349.5	1688.8
35°	2251.4	2264.3	2230.1	2190.0	2161.8	2187.0	2381.2	2693.7	2663.0	2520.3	1755.6
37.5°	2450.5	2466.4	2434.7	2355.9	2315.8	2322.7	2484.7	2867.5	2873.9	2715.0	1855.2
40°	2613.4	2634.2	2635.3	2523.8	2462.8	2470.8	2615.9	3054.7	3128.5	2955.7	1972.6
42.5°	2720.9	2741.2	2762.5	2697.1	2633.2	2678.3	2768.9	3257.7	3414.7	3247.9	2136.5
45°	2838.8	2857.1	2869.0	2839.2	2803.6	2920.5	2953.7	3473.7	3719.8	3574.2	2315.8
47.5°	2975.5	2995.8	3007.2	2978.9	2965.5	3132.9	3152.7	3675.2	4045.7	3891.2	2513.9
50°	3157.7	3173.0	3167.2	3149.3	3146.3	3295.9	3344.0	3863.9	4314.6	4232.4	2719.4
52.5°	3384.5	3402.8	3409.3	3384.0	3372.6	3412.2	3498.0	4035.8	4559.3	4525.6	2938.8
55°	3521.7	3550.9	3649.0	3688.6	3715.9	3562.8	3663.9	4225.5	4778.6	4834.6	3174.5
57.5°	3345.9	3383.6	3603.0	3801.1	4057.1	3939.2	3899.1	4423.6	4998.0	5134.3	3456.9
60°	2917.0	2925.4	3208.3	3573.2	4088.3	4423.1	4389.9	4738.6	5235.8	5436.4	3828.8
62.5°	2023.6	2041.4	2375.7	2958.1	3703.0	4597.4	5224.9	5282.4	5576.5	5888.6	4374.1
65°	1043.5	1020.2	1324.8	1859.2	2791.7	4183.4	5901.4	6282.2	6315.4	6595.8	5141.6
67.5°	642.4	652.7	795.4	1085.6	1650.6	3040.3	5830.6	7504.0	7329.2	7463.9	5854.3
70°	482.4	495.2	593.3	742.9	1006.3	1738.3	4689.0	7800.2	8044.4	8009.7	6071.3
71°	419.5	432.8	534.9	676.0	845.4	1341.7	3950.6	7490.2	8069.1	8063.2	5989.6
72.5°	357.6	366.0	445.8	572.5	712.7	940.5	2968.0	6717.6	7724.9	7922.6	5697.9
75°	280.8	287.3	322.9	436.8	561.1	577.5	1592.7	5036.2	6344.6	6721.0	4743.5
77.5°	228.8	233.3	251.6	324.4	432.8	409.0	835.5	3278.0	3974.9	4353.7	2794.2
80°	181.7	186.7	197.6	219.9	324.4	291.7	398.7	1661.1	1920.1	1916.2	1115.3
82.5°	141.2	142.7	155.5	161.5	221.9	207.0	216.0	703.3	779.0	804.8	402.6
85°	89.2	93.6	137.7	123.8	132.7	121.4	106.5	279.3	344.2	339.3	161.0
87.5°	27.2	28.7	46.6	52.5	59.0	53.0	39.2	82.2	100.5	109.0	40.1
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°	1105.9	1105.9	1105.9	1105.9	1105.9	1105.9	1105.9	1105.9	1105.9	1105.9	1105.9
2.5°	1112.3	1106.8	1087.6	1071.7	1056.9	1040.5	1026.7	1022.7	1019.2	1017.7	1017.3
5°	1122.7	1106.4	1068.2	1037.1	1012.3	989.5	975.1	968.7	962.3	962.3	964.3
7.5°	1137.6	1107.9	1048.9	1002.4	971.2	949.9	939.5	938.5	940.0	941.5	941.9
10°	1153.9	1106.8	1020.7	962.8	935.1	925.1	925.6	934.0	941.9	947.9	948.9
12.5°	1169.8	1101.0	987.5	925.6	907.8	909.8	923.6	942.5	957.8	966.2	966.7
15°	1187.6	1091.5	947.4	890.4	884.6	899.9	925.6	954.3	977.7	991.5	993.0
17.5°	1202.5	1075.7	905.3	856.3	863.7	891.9	927.6	964.7	993.0	1010.3	1013.3
20°	1219.3	1055.4	861.8	823.6	844.9	883.1	923.6	963.8	993.0	1009.8	1013.8
22.5°	1232.7	1026.7	820.1	796.9	828.0	872.1	910.2	942.5	966.2	975.1	981.1
25°	1238.2	990.5	781.0	775.1	814.7	854.3	880.1	898.4	905.8	904.8	907.3
27.5°	1235.2	948.9	747.3	757.7	797.9	826.5	839.5	838.0	824.6	812.2	818.2
30°	1222.8	899.4	719.1	739.9	776.0	791.9	789.9	770.6	745.3	722.1	723.6
32.5°	1200.5	845.9	692.9	719.6	745.3	752.3	738.9	713.6	677.5	647.3	642.8
35°	1181.7	794.9	669.5	696.3	714.6	711.2	698.3	665.6	632.9	606.2	601.7
37.5°	1178.7	751.3	647.3	670.1	680.5	675.5	659.7	632.0	620.1	599.8	597.3
40°	1194.5	720.6	624.5	642.4	647.3	643.3	626.0	610.1	621.1	616.1	616.1
42.5°	1237.6	704.2	604.2	614.6	618.6	621.5	609.2	595.8	609.2	586.4	579.0
45°	1306.0	704.8	585.9	587.3	599.2	609.6	601.3	581.5	574.5	528.9	520.0
47.5°	1406.5	721.6	571.0	561.6	582.9	600.2	588.3	559.6	528.9	498.7	493.3
50°	1523.9	751.8	557.7	534.9	561.1	588.3	579.4	545.8	514.0	495.7	492.3
52.5°	1654.2	789.9	541.3	505.2	534.4	582.9	581.5	543.8	500.2	487.8	484.8
55°	1815.1	827.6	521.0	470.5	510.6	578.5	576.0	527.4	497.2	488.3	487.3
57.5°	2002.3	882.0	491.8	435.3	483.3	560.2	554.7	517.6	487.3	480.9	480.4
60°	2303.9	966.7	450.1	403.2	455.6	527.9	534.9	500.7	471.4	470.0	469.5
62.5°	2700.6	1085.6	407.1	370.0	423.4	486.3	506.1	477.9	454.6	462.0	463.1
65°	3248.4	1185.6	362.5	341.7	387.8	446.2	478.9	456.6	435.8	450.1	450.1
67.5°	3605.4	1187.6	321.9	312.5	351.6	412.6	450.1	431.4	411.5	435.8	436.8
70°	3531.1	1040.5	288.2	281.8	316.5	376.4	418.5	403.6	380.9	402.6	394.7
71°	3411.3	958.8	274.8	269.9	302.6	359.1	403.6	391.3	368.5	382.8	378.3
72.5°	3220.1	832.5	253.1	254.1	281.8	337.2	382.8	370.0	347.2	355.1	353.6
75°	2721.9	727.0	216.4	220.9	242.2	300.1	341.2	331.3	308.0	308.0	306.5
77.5°	1701.7	508.1	179.8	182.3	205.5	257.1	293.2	284.8	262.5	255.0	253.1
80°	634.9	262.5	140.6	143.6	158.0	202.6	242.7	234.7	212.0	203.6	195.6
82.5°	240.2	131.7	103.5	101.0	116.4	154.5	190.2	180.8	162.9	142.7	136.7
85°	90.6	65.4	63.4	61.4	68.4	91.6	117.8	115.9	97.1	82.7	81.2
87.5°	23.8	21.3	24.7	18.3	19.3	17.3	17.9	7.4	3.4	1.5	1.0
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)