

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: P652300

Luminaire Tested: **GALN-SA3B-840-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652300
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-SA3B-840-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14366.8 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

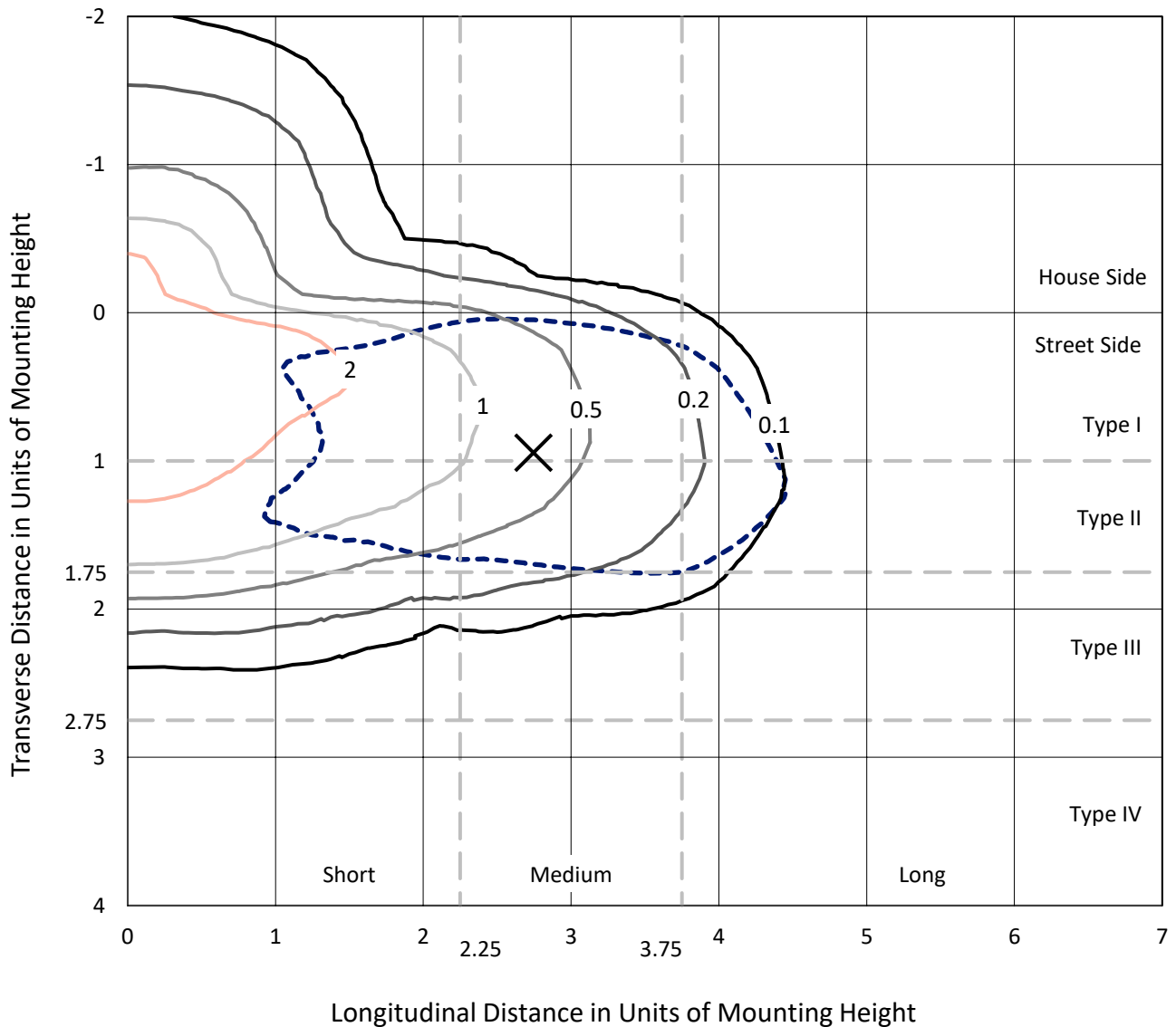
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

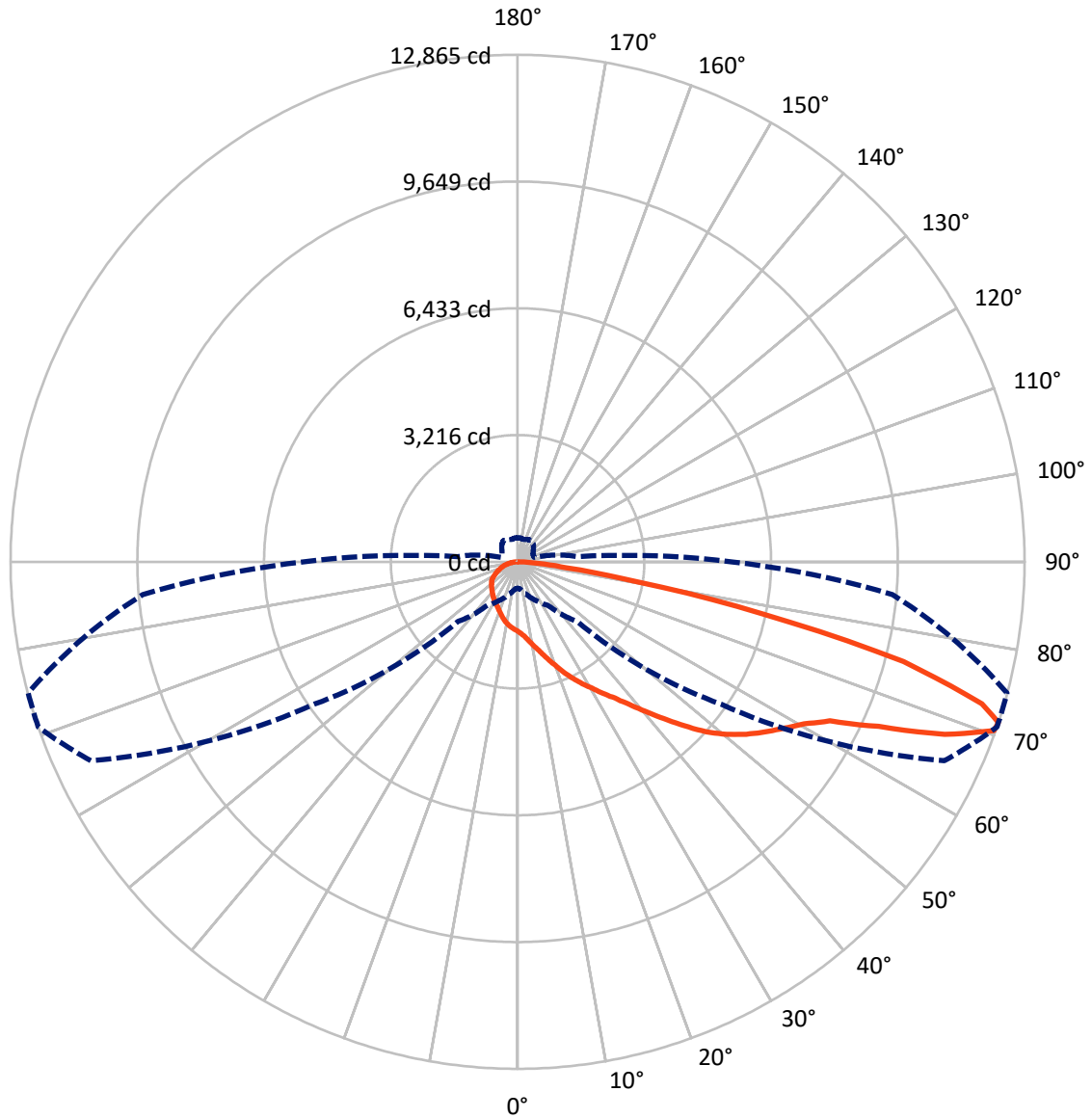
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
House Side	Lumens	2583.8	0.0	2583.8
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	11783.0	0.0	11783.0
	% Fixture	82.0	0.0	82.0
Total	Lumens	14366.8	0.0	14366.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	1.2
10°-20°	575.2	4.0
20°-30°	1005.2	7.0
30°-40°	1495.1	10.4
40°-50°	2202.8	15.3
50°-60°	3084.0	21.5
60°-70°	3449.4	24.0
70°-80°	2107.0	14.7
80°-90°	271.0	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°	14366.8	100.0
0°-180°	14366.8	100.0

Coefficient of Utilization

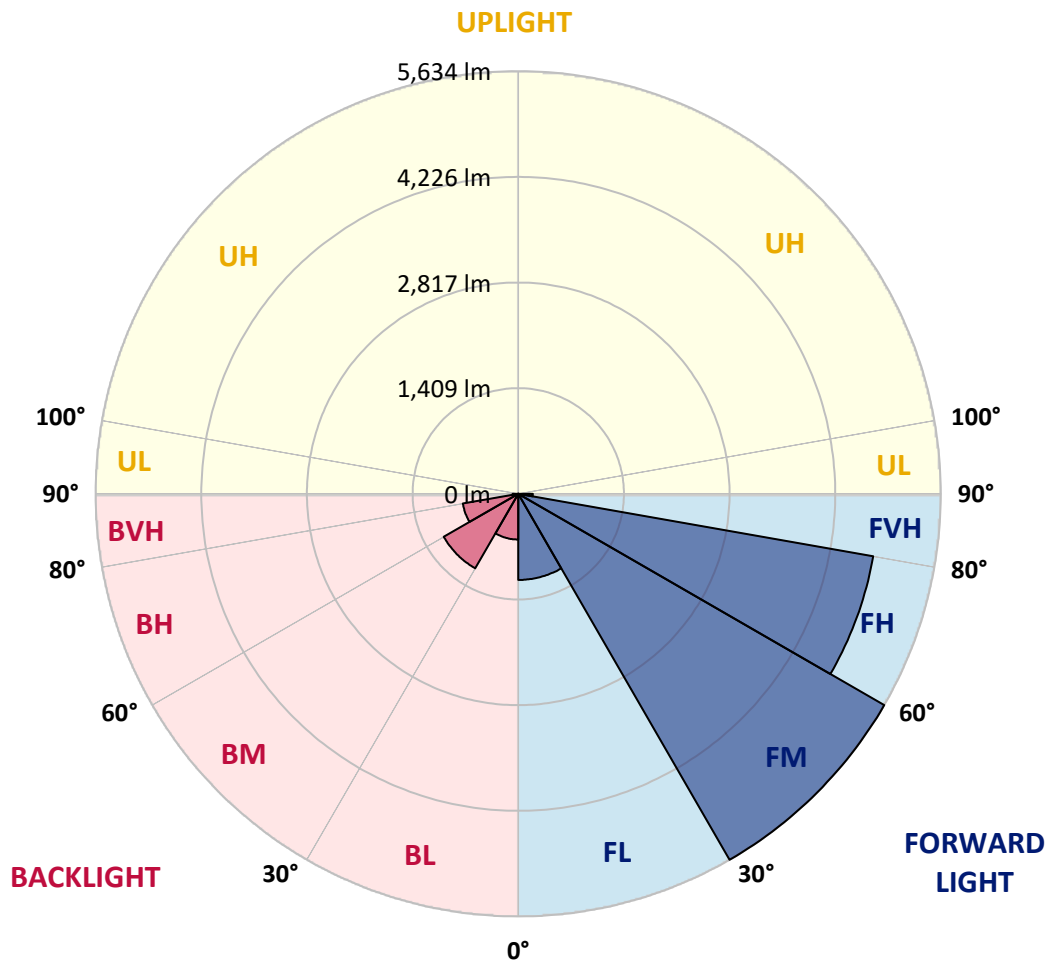


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1147.9	8.0			
FM (30°-60°)	5634.4	39.2			
FH (60°-80°)	4805.7	33.4			G2/5000
FVH (80°-90°)	195.0	1.4			G2/225
BL (0°-30°)	609.5	4.2	B2/1000		
BM (30°-60°)	1147.6	8.0	B2/2500		
BH (60°-80°)	750.7	5.2	B2/1000		G2/1000
BVH (80°-90°)	76.0	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2
2.5°	1957.5	1948.0	1948.8	1935.4	1918.0	1899.1	1872.2	1848.5	1829.6	1818.5	1786.1
5°	2169.1	2159.6	2147.8	2118.6	2105.9	2059.4	2000.2	1946.4	1905.4	1882.5	1817.7
7.5°	2340.4	2338.1	2335.0	2318.4	2286.0	2221.2	2170.7	2077.5	2016.7	1973.3	1862.7
10°	2446.3	2450.3	2452.6	2455.7	2442.3	2408.4	2338.9	2221.2	2143.9	2088.5	1921.2
12.5°	2500.0	2503.9	2517.4	2546.5	2564.7	2560.8	2503.9	2388.6	2282.1	2209.4	1983.6
15°	2533.1	2539.5	2563.1	2601.8	2662.6	2701.3	2673.7	2567.1	2450.3	2364.1	2057.8
17.5°	2569.4	2576.6	2602.6	2657.9	2737.6	2821.3	2851.3	2759.7	2632.6	2530.0	2140.7
20°	2589.9	2599.4	2636.5	2709.2	2802.4	2924.0	3023.5	2975.3	2836.4	2722.7	2236.2
22.5°	2623.2	2631.1	2662.6	2740.0	2851.3	3003.7	3195.6	3185.4	3063.0	2916.1	2341.3
25°	2713.2	2725.8	2741.6	2788.2	2895.6	3085.0	3338.5	3409.6	3282.5	3118.3	2437.6
27.5°	2882.9	2893.2	2892.5	2898.8	2959.6	3155.3	3462.6	3631.5	3500.4	3322.8	2530.7
30°	3076.4	3080.3	3083.5	3069.3	3082.7	3227.3	3576.3	3851.0	3719.9	3532.8	2612.1
32.5°	3311.7	3319.6	3292.8	3256.4	3245.3	3333.8	3670.2	4070.5	3979.7	3746.0	2692.6
35°	3589.6	3610.2	3555.7	3491.7	3446.8	3487.0	3796.5	4294.8	4245.9	4018.4	2799.3
37.5°	3907.1	3932.3	3881.8	3756.2	3692.3	3703.3	3961.5	4571.9	4582.2	4328.7	2958.0
40°	4166.9	4200.0	4201.6	4023.9	3926.8	3939.5	4170.9	4870.4	4988.1	4712.5	3145.1
42.5°	4338.2	4370.6	4404.6	4300.3	4198.4	4270.3	4414.8	5194.2	5444.5	5178.4	3406.5
45°	4526.2	4555.4	4574.3	4526.9	4470.1	4656.4	4709.3	5538.5	5930.9	5698.8	3692.3
47.5°	4744.1	4776.5	4794.6	4749.6	4728.3	4995.2	5026.7	5859.8	6450.5	6204.1	4008.1
50°	5034.6	5059.1	5049.7	5021.3	5016.5	5255.0	5331.6	6160.7	6879.2	6748.2	4335.9
52.5°	5396.4	5425.5	5435.8	5395.5	5377.4	5440.5	5577.2	6434.7	7269.4	7215.6	4685.6
55°	5615.0	5661.6	5818.0	5881.2	5924.6	5680.6	5841.7	6737.1	7619.1	7708.4	5061.6
57.5°	5334.7	5394.8	5744.5	6060.4	6468.6	6280.7	6216.8	7053.0	7968.9	8186.1	5511.6
60°	4650.9	4664.4	5115.2	5697.2	6518.4	7052.2	6999.3	7555.2	8347.9	8667.8	6104.7
62.5°	3226.4	3254.8	3787.9	4716.5	5904.1	7330.2	8330.6	8422.2	8891.2	9388.7	6974.0
65°	1663.8	1626.7	2112.3	2964.3	4451.2	6670.0	9409.2	10016.5	10069.4	10516.3	8197.9
67.5°	1024.2	1040.7	1268.1	1730.9	2631.8	4847.5	9296.3	11964.5	11685.7	11900.5	9334.2
70°	769.1	789.6	946.0	1184.5	1604.5	2771.6	7476.2	12436.6	12825.9	12770.7	9680.1
71°	668.8	690.1	852.8	1077.8	1347.9	2139.1	6298.8	11942.4	12865.4	12855.9	9549.8
72.5°	570.1	583.6	710.6	912.8	1136.3	1499.5	4732.2	10710.6	12316.6	12631.7	9084.7
75°	447.7	458.0	514.9	696.4	894.7	920.7	2539.5	8029.7	10116.0	10716.0	7563.0
77.5°	364.8	371.9	401.2	517.2	690.1	652.2	1332.1	5226.6	6337.5	6941.6	4455.1
80°	289.8	297.7	315.0	350.6	517.2	465.1	635.6	2648.4	3061.4	3055.1	1778.2
82.5°	225.1	227.4	247.9	257.4	353.7	330.1	344.3	1121.3	1242.1	1283.1	641.9
85°	142.1	149.3	219.5	197.4	211.6	193.4	169.8	445.3	548.8	540.9	256.6
87.5°	43.4	45.8	74.3	83.7	93.9	84.5	62.4	131.1	160.3	173.8	64.0
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°	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2
2.5°	1773.5	1764.8	1734.1	1708.7	1685.0	1659.0	1636.9	1630.6	1625.1	1622.7	1621.9
5°	1790.1	1764.0	1703.2	1653.5	1614.0	1577.7	1554.8	1544.5	1534.2	1534.2	1537.4
7.5°	1813.8	1766.4	1672.4	1598.2	1548.4	1514.5	1497.9	1496.3	1498.7	1501.1	1501.9
10°	1839.9	1764.8	1627.4	1535.1	1490.8	1475.0	1475.8	1489.2	1501.9	1511.4	1513.0
12.5°	1865.1	1755.3	1574.5	1475.8	1447.4	1450.6	1472.7	1502.7	1527.2	1540.5	1541.4
15°	1893.5	1740.4	1510.5	1419.8	1410.3	1434.7	1475.8	1521.6	1558.7	1580.8	1583.2
17.5°	1917.2	1715.1	1443.4	1365.3	1377.1	1422.1	1479.0	1538.2	1583.2	1610.9	1615.6
20°	1944.1	1682.7	1373.9	1313.1	1347.1	1407.9	1472.7	1536.6	1583.2	1610.1	1616.4
22.5°	1965.4	1636.9	1307.6	1270.5	1320.3	1390.5	1451.3	1502.7	1540.5	1554.8	1564.3
25°	1974.1	1579.2	1245.3	1235.8	1298.9	1362.1	1403.2	1432.4	1444.2	1442.7	1446.6
27.5°	1969.4	1513.0	1191.5	1208.1	1272.1	1317.9	1338.5	1336.0	1314.7	1295.0	1304.5
30°	1949.6	1434.0	1146.5	1179.7	1237.4	1262.6	1259.5	1228.7	1188.4	1151.2	1153.7
32.5°	1914.0	1348.7	1104.7	1147.3	1188.4	1199.4	1178.2	1137.9	1080.2	1032.1	1024.9
35°	1884.1	1267.4	1067.6	1110.2	1139.5	1133.9	1113.4	1061.3	1009.1	966.5	959.4
37.5°	1879.3	1197.8	1032.1	1068.4	1085.0	1077.1	1051.8	1007.6	988.6	956.2	952.3
40°	1904.6	1148.9	995.7	1024.2	1032.1	1025.8	998.1	972.8	990.2	982.3	982.3
42.5°	1973.3	1122.8	963.4	979.9	986.2	991.0	971.3	949.9	971.3	934.9	923.1
45°	2082.2	1123.7	934.1	936.5	955.5	972.0	958.6	927.0	915.9	843.4	829.1
47.5°	2242.5	1150.5	910.5	895.4	929.4	957.1	938.1	892.3	843.4	795.2	786.5
50°	2429.6	1198.7	889.1	852.8	894.7	938.1	923.8	870.2	819.6	790.5	784.9
52.5°	2637.4	1259.5	863.0	805.4	852.0	929.4	927.0	867.0	797.5	777.8	773.0
55°	2894.0	1319.4	830.7	750.2	814.1	922.3	918.4	840.9	792.8	778.6	777.0
57.5°	3192.4	1406.3	784.1	694.1	770.7	893.1	884.4	825.2	777.0	766.7	765.9
60°	3673.3	1541.4	717.8	642.8	726.5	841.8	852.8	798.3	751.7	749.3	748.6
62.5°	4305.8	1730.9	649.1	589.9	675.2	775.4	807.0	762.0	724.9	736.7	738.3
65°	5179.2	1890.4	578.0	544.9	618.3	711.5	763.5	728.1	694.8	717.8	717.8
67.5°	5748.5	1893.5	513.3	498.3	560.6	657.7	717.8	687.8	656.1	694.8	696.4
70°	5630.1	1659.0	459.5	449.3	504.6	600.1	667.2	643.5	607.2	641.9	629.3
71°	5439.0	1528.7	438.2	430.3	482.5	572.5	643.5	623.8	587.5	610.4	603.2
72.5°	5134.1	1327.4	403.5	405.1	449.3	537.7	610.4	589.9	553.5	566.2	563.8
75°	4339.8	1159.2	345.1	352.2	386.1	478.5	544.0	528.2	491.1	491.1	488.8
77.5°	2713.2	810.1	286.6	290.6	327.7	409.8	467.4	454.1	418.5	406.6	403.5
80°	1012.3	418.5	224.3	229.0	251.9	322.9	386.9	374.2	338.0	324.5	311.9
82.5°	383.0	210.1	165.0	161.1	185.5	246.3	303.2	288.2	259.8	227.4	217.9
85°	144.5	104.2	101.1	97.9	109.0	146.1	188.0	184.8	154.7	131.9	129.5
87.5°	37.9	34.0	39.4	29.2	30.8	27.7	28.4	11.9	5.6	2.4	1.6
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)