

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: P647460

Luminaire Tested: **GALN-SA5D-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647460
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-SA5D-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30507.2 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

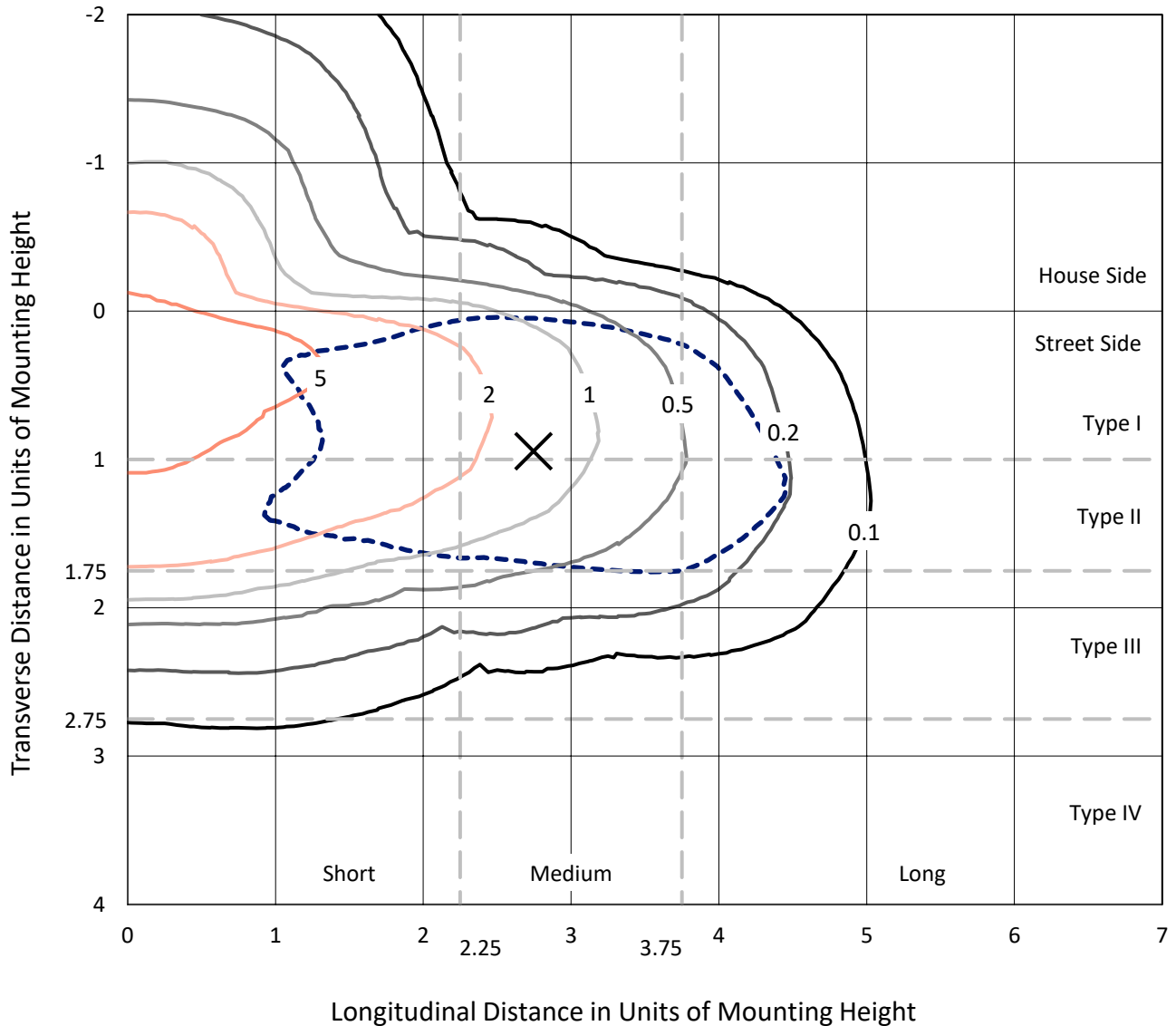
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

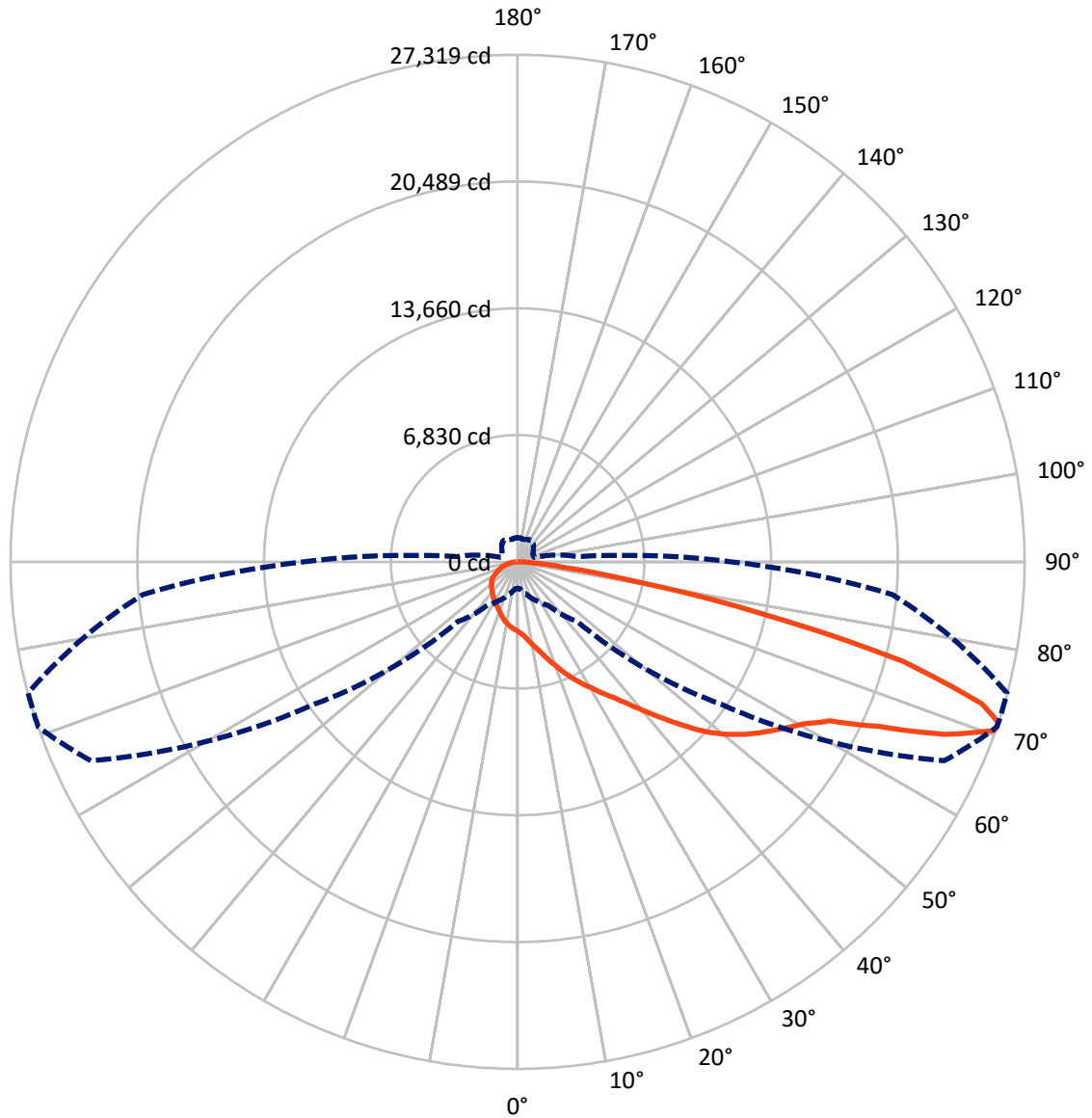
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	5486.6	0.0	5486.6
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	25020.6	0.0	25020.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	30507.2	0.0	30507.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.9	1.2
10°-20°	1221.4	4.0
20°-30°	2134.5	7.0
30°-40°	3174.8	10.4
40°-50°	4677.6	15.3
50°-60°	6548.8	21.5
60°-70°	7324.6	24.0
70°-80°	4474.1	14.7
80°-90°	575.5	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°	30507.2	100.0
0°-180°	30507.2	100.0

Coefficient of Utilization

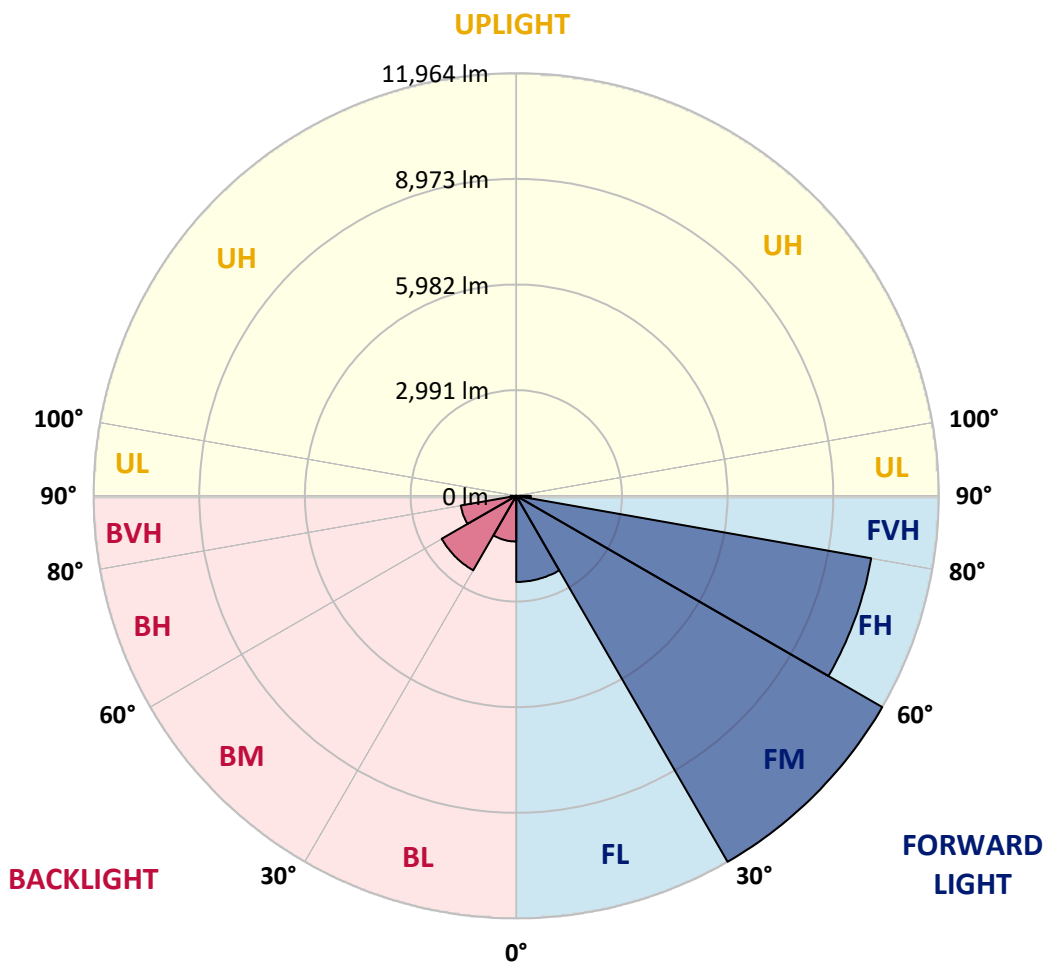


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2437.5	8.0			
FM (30°-60°)	11964.3	39.2			
FH (60°-80°)	10204.6	33.4			G4/12000
FVH (80°-90°)	414.1	1.4			G3/500
BL (0°-30°)	1294.3	4.2	B3/2500		
BM (30°-60°)	2436.8	8.0	B2/2500		
BH (60°-80°)	1594.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	161.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3744.1	3744.1	3744.1	3744.1	3744.1	3744.1	3744.1	3744.1	3744.1	3744.1	3744.1
2.5°	4156.6	4136.5	4138.2	4109.7	4072.8	4032.5	3975.5	3925.3	3885.0	3861.5	3792.8
5°	4606.0	4585.9	4560.7	4498.7	4471.9	4373.0	4247.1	4133.1	4046.0	3997.4	3859.9
7.5°	4969.9	4964.8	4958.1	4922.9	4854.1	4716.6	4609.4	4411.5	4282.4	4190.1	3955.4
10°	5194.6	5203.0	5208.0	5214.7	5186.1	5114.1	4966.5	4716.6	4552.4	4435.0	4079.5
12.5°	5308.6	5317.0	5345.5	5407.5	5446.1	5437.7	5317.0	5072.1	4845.8	4691.5	4212.0
15°	5379.0	5392.4	5442.7	5524.8	5654.0	5736.1	5677.5	5451.1	5203.0	5020.1	4369.6
17.5°	5456.1	5471.2	5526.6	5643.9	5813.2	5991.0	6054.7	5860.2	5590.2	5372.2	4545.6
20°	5499.7	5519.8	5598.6	5752.9	5950.7	6209.0	6420.2	6317.9	6022.8	5781.4	4748.5
22.5°	5570.1	5586.9	5654.0	5818.3	6054.7	6378.3	6785.8	6763.9	6504.1	6192.2	4971.5
25°	5761.3	5788.1	5821.7	5920.6	6148.6	6551.0	7089.3	7240.2	6970.2	6621.4	5176.1
27.5°	6121.8	6143.6	6141.9	6155.3	6284.4	6700.3	7352.5	7711.3	7433.0	7055.7	5374.0
30°	6532.6	6540.9	6547.7	6517.5	6546.0	6852.8	7593.9	8177.5	7899.1	7501.8	5546.7
32.5°	7032.3	7049.0	6992.0	6914.9	6891.4	7079.2	7793.5	8643.6	8450.8	7954.5	5717.7
35°	7622.4	7666.0	7550.4	7414.5	7318.9	7404.5	8061.8	9119.8	9015.9	8532.9	5944.1
37.5°	8296.5	8350.1	8242.9	7976.3	7840.4	7863.9	8412.2	9708.3	9730.1	9191.9	6281.1
40°	8848.1	8918.6	8922.0	8544.6	8338.4	8365.3	8856.5	10342.2	10592.0	10006.8	6678.4
42.5°	9212.0	9280.7	9352.9	9131.5	8915.2	9067.8	9374.6	11029.6	11561.2	10996.1	7233.4
45°	9611.1	9673.1	9713.3	9612.7	9492.0	9887.7	10000.1	11760.7	12594.0	12101.0	7840.4
47.5°	10073.8	10142.6	10181.2	10085.6	10040.3	10607.1	10674.2	12443.1	13697.3	13174.1	8511.1
50°	10690.9	10742.9	10722.8	10662.4	10652.3	11158.7	11321.3	13082.0	14607.8	14329.4	9207.0
52.5°	11458.8	11520.9	11542.7	11457.2	11418.6	11552.8	11842.8	13663.7	15436.1	15322.1	9949.8
55°	11923.3	12022.3	12354.3	12488.4	12580.6	12062.5	12404.5	14306.0	16178.9	16368.4	10747.9
57.5°	11328.1	11455.5	12198.3	12869.0	13735.9	13336.8	13201.0	14976.7	16921.6	17382.8	11703.7
60°	9876.0	9904.5	10861.9	12097.7	13841.5	14975.0	14862.7	16043.0	17726.5	18405.6	12962.9
62.5°	6851.2	6911.5	8043.3	10015.2	12537.0	15565.2	17689.6	17884.1	18880.1	19936.4	14809.0
65°	3532.9	3454.0	4485.3	6294.5	9451.8	14163.5	19980.0	21269.5	21381.8	22330.8	17407.9
67.5°	2174.7	2209.9	2692.8	3675.4	5588.6	10293.5	19740.3	25406.0	24814.1	25270.2	19820.8
70°	1633.2	1676.7	2008.7	2515.1	3407.1	5885.3	15875.4	26408.6	27235.3	27118.0	20555.2
71°	1420.2	1465.5	1810.8	2288.8	2862.2	4542.3	13375.4	25359.0	27319.1	27299.0	20278.5
72.5°	1210.6	1239.1	1509.1	1938.3	2412.8	3184.1	10048.7	22743.3	26153.8	26822.8	19290.9
75°	950.7	972.5	1093.2	1478.9	1899.7	1955.1	5392.4	17050.8	21480.7	22755.1	16059.8
77.5°	774.6	789.7	851.7	1098.2	1465.5	1385.0	2828.7	11098.3	13457.5	14740.2	9460.2
80°	615.4	632.1	669.0	744.5	1098.2	987.6	1349.8	5623.8	6500.7	6487.3	3776.0
82.5°	477.9	482.9	526.5	546.6	751.2	700.9	731.1	2380.9	2637.5	2724.7	1363.2
85°	301.8	316.9	466.1	419.2	449.4	410.8	360.5	945.7	1165.3	1148.6	545.0
87.5°	92.2	97.2	157.6	177.7	199.5	179.4	132.5	278.4	340.4	368.9	135.9
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°	3744.1	3744.1	3744.1	3744.1	3744.1	3744.1	3744.1	3744.1	3744.1	3744.1	3744.1
2.5°	3766.0	3747.5	3682.1	3628.5	3578.2	3522.8	3475.9	3462.5	3450.8	3445.7	3444.0
5°	3801.2	3745.9	3616.8	3511.1	3427.3	3350.1	3301.5	3279.7	3257.9	3257.9	3264.6
7.5°	3851.5	3750.9	3551.4	3393.8	3288.1	3216.0	3180.8	3177.4	3182.4	3187.5	3189.2
10°	3906.8	3747.5	3455.8	3259.6	3165.7	3132.2	3133.8	3162.3	3189.2	3209.3	3212.6
12.5°	3960.5	3727.4	3343.4	3133.8	3073.4	3080.2	3127.1	3190.8	3242.8	3271.3	3273.0
15°	4020.9	3695.5	3207.6	3014.8	2994.7	3046.7	3133.8	3231.0	3309.9	3356.8	3361.9
17.5°	4071.1	3641.9	3065.1	2899.1	2924.3	3019.8	3140.5	3266.3	3361.9	3420.5	3430.6
20°	4128.1	3573.1	2917.5	2788.4	2860.5	2989.7	3127.1	3262.9	3361.9	3418.9	3432.3
22.5°	4173.4	3475.9	2776.7	2697.9	2803.5	2952.8	3081.9	3190.8	3271.3	3301.5	3321.6
25°	4191.9	3353.5	2644.2	2624.1	2758.3	2892.4	2979.5	3041.6	3066.8	3063.4	3071.8
27.5°	4181.8	3212.6	2530.2	2565.4	2701.2	2798.4	2842.1	2837.0	2791.8	2749.8	2769.9
30°	4139.9	3044.9	2434.7	2505.1	2627.4	2681.1	2674.4	2609.0	2523.5	2444.7	2449.7
32.5°	4064.4	2863.9	2345.8	2436.3	2523.5	2546.9	2501.7	2416.2	2293.8	2191.5	2176.4
35°	4000.7	2691.2	2266.9	2357.5	2419.5	2407.8	2364.2	2253.6	2142.8	2052.3	2037.2
37.5°	3990.6	2543.7	2191.5	2268.7	2303.8	2287.1	2233.4	2139.5	2099.3	2030.6	2022.2
40°	4044.3	2439.7	2114.3	2174.7	2191.5	2178.1	2119.4	2065.7	2102.7	2085.8	2085.8
42.5°	4190.1	2384.3	2045.6	2080.8	2094.2	2104.3	2062.4	2017.1	2062.4	1985.3	1960.1
45°	4421.6	2386.0	1983.6	1988.6	2028.8	2064.1	2035.6	1968.5	1945.1	1790.7	1760.6
47.5°	4762.0	2443.0	1933.3	1901.4	1973.6	2032.2	1992.0	1894.7	1790.7	1688.5	1670.1
50°	5159.3	2545.3	1888.0	1810.8	1899.7	1992.0	1961.8	1847.8	1740.5	1678.4	1666.7
52.5°	5600.3	2674.4	1832.7	1710.3	1809.2	1973.6	1968.5	1841.1	1693.5	1651.6	1641.6
55°	6145.2	2801.8	1763.9	1592.9	1728.7	1958.4	1950.1	1785.7	1683.4	1653.3	1649.9
57.5°	6779.1	2986.3	1665.0	1473.8	1636.5	1896.4	1877.9	1752.2	1649.9	1628.1	1626.4
60°	7800.2	3273.0	1524.2	1364.8	1542.6	1787.4	1810.8	1695.2	1596.2	1591.2	1589.6
62.5°	9143.2	3675.4	1378.3	1252.5	1433.6	1646.6	1713.6	1618.1	1539.2	1564.4	1567.7
65°	10997.8	4014.1	1227.4	1157.0	1312.9	1510.7	1621.4	1546.0	1475.6	1524.2	1524.2
67.5°	12206.7	4020.9	1089.9	1058.0	1190.5	1396.7	1524.2	1460.5	1393.3	1475.6	1478.9
70°	11955.2	3522.8	975.9	954.1	1071.5	1274.3	1416.8	1366.6	1289.4	1363.2	1336.3
71°	11549.4	3246.2	930.6	913.8	1024.5	1215.6	1366.6	1324.6	1247.5	1296.1	1281.1
72.5°	10902.2	2818.6	856.8	860.2	954.1	1141.8	1296.1	1252.5	1175.4	1202.2	1197.2
75°	9215.4	2461.4	732.7	747.8	820.0	1016.1	1155.2	1121.7	1043.0	1043.0	1037.9
77.5°	5761.3	1720.3	608.6	617.0	695.9	870.2	992.6	964.1	888.7	863.5	856.8
80°	2149.6	888.7	476.2	486.2	534.9	685.8	821.6	794.7	717.6	689.1	662.3
82.5°	813.2	446.0	350.5	342.1	394.0	523.1	643.9	612.0	551.6	482.9	462.8
85°	306.9	221.4	214.6	207.9	231.4	310.2	399.1	392.4	328.6	280.0	275.0
87.5°	80.5	72.1	83.9	62.0	65.4	58.7	60.4	25.1	11.7	5.0	3.4
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)