

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: P452644

Luminaire Tested: **GALN-SA3C-760-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452644
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-SA3C-760-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21107 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

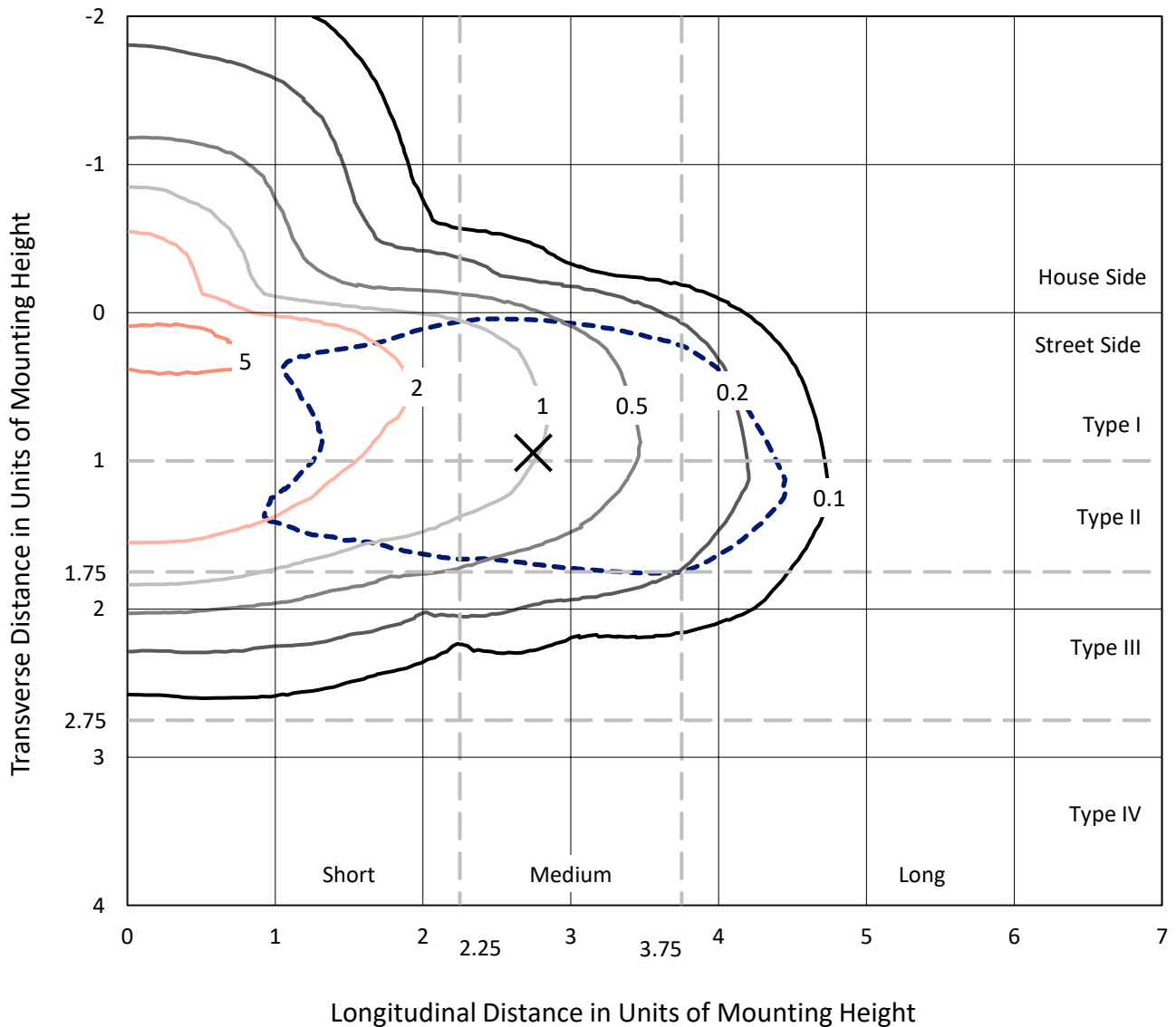
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

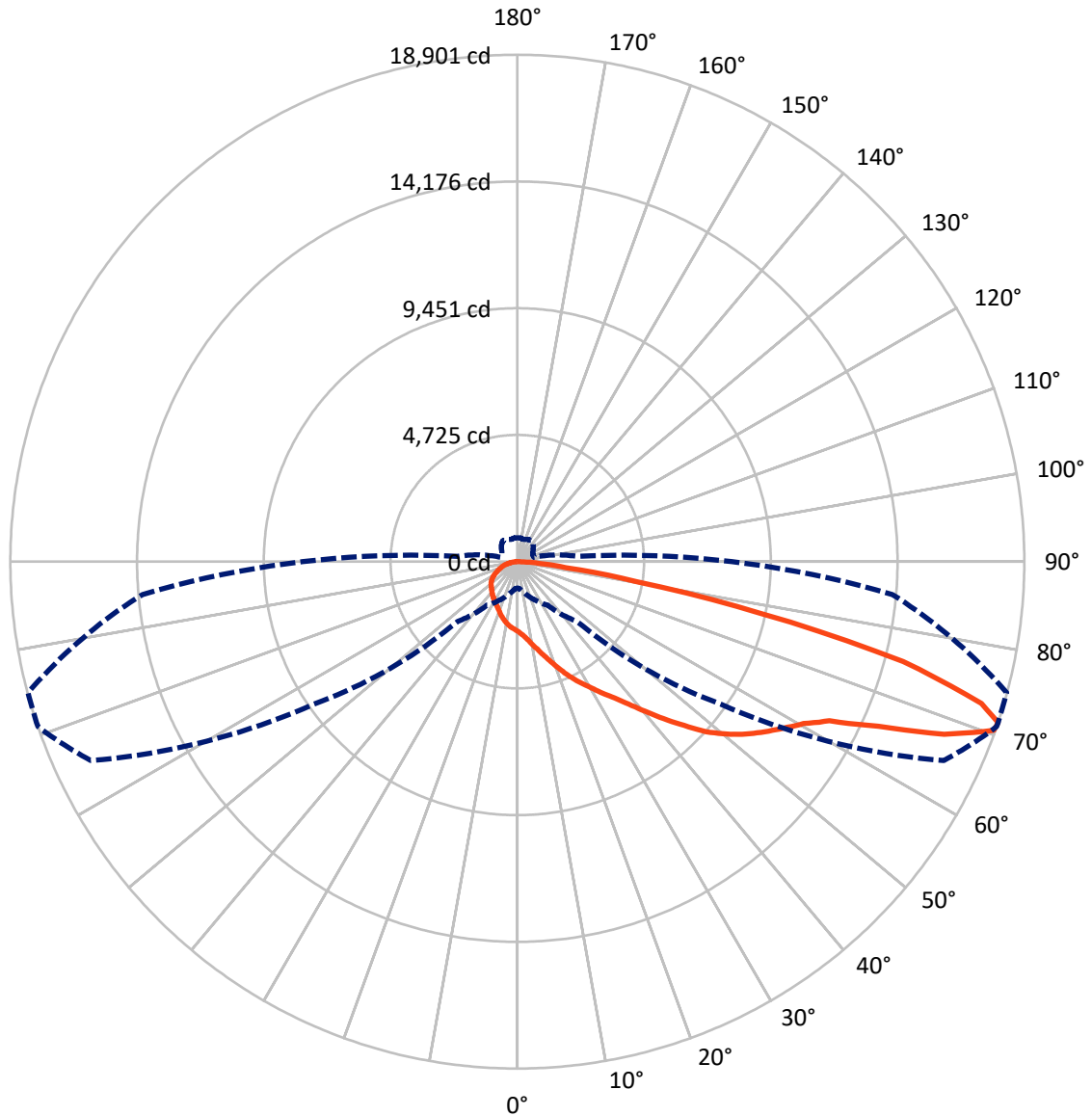
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	3796.0	0.0	3796.0
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	17311.0	0.0	17311.0
	% Fixture	82.0	0.0	82.0
Total	Lumens	21107.0	0.0	21107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.1	1.2
10°-20°	845.0	4.0
20°-30°	1476.8	7.0
30°-40°	2196.5	10.4
40°-50°	3236.3	15.3
50°-60°	4530.9	21.5
60°-70°	5067.6	24.0
70°-80°	3095.5	14.7
80°-90°	398.2	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°	21107.0	100.0
0°-180°	21107.0	100.0

Coefficient of Utilization



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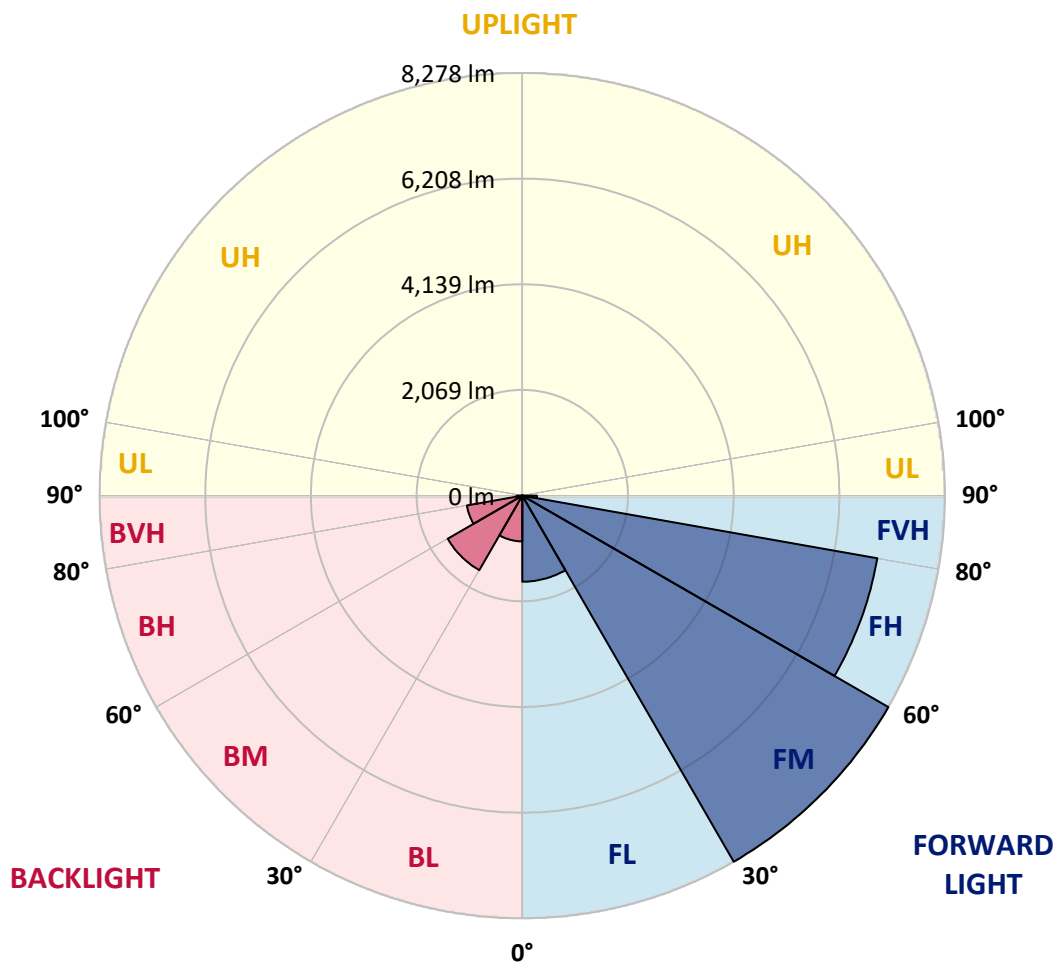
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1686.5	8.0			
FM	(30°-60°)	8277.7	39.2			
FH	(60°-80°)	7060.2	33.4			G3/7500
FVH	(80°-90°)	286.5	1.4			G3/500
BL	(0°-30°)	895.5	4.2	B2/1000		
BM	(30°-60°)	1686.0	8.0	B2/2500		
BH	(60°-80°)	1102.9	5.2	B3/2500		G3/2500
BVH	(80°-90°)	111.7	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2590.5	2590.5	2590.5	2590.5	2590.5	2590.5	2590.5	2590.5	2590.5	2590.5	2590.5
2.5°	2875.8	2861.9	2863.1	2843.4	2817.8	2790.0	2750.6	2715.8	2687.9	2671.7	2624.1
5°	3186.8	3172.8	3155.4	3112.5	3093.9	3025.5	2938.5	2859.6	2799.3	2765.6	2670.5
7.5°	3438.5	3435.0	3430.4	3406.0	3358.4	3263.3	3189.1	3052.2	2962.9	2899.1	2736.6
10°	3593.9	3599.7	3603.2	3607.9	3588.1	3538.3	3436.2	3263.3	3149.6	3068.4	2822.5
12.5°	3672.8	3678.6	3698.3	3741.3	3768.0	3762.2	3678.6	3509.3	3352.6	3245.9	2914.1
15°	3721.5	3730.8	3765.6	3822.5	3911.8	3968.6	3928.0	3771.4	3599.7	3473.3	3023.2
17.5°	3774.9	3785.4	3823.6	3904.8	4022.0	4145.0	4189.1	4054.5	3867.7	3716.9	3145.0
20°	3805.1	3819.0	3873.5	3980.2	4117.1	4295.8	4442.0	4371.2	4167.0	4000.0	3285.4
22.5°	3853.8	3865.4	3911.8	4025.5	4189.1	4413.0	4694.9	4679.8	4500.0	4284.2	3439.6
25°	3986.0	4004.6	4027.8	4096.3	4254.0	4532.4	4904.8	5009.2	4822.5	4581.2	3581.2
27.5°	4235.5	4250.5	4249.4	4258.7	4348.0	4635.7	5087.0	5335.2	5142.7	4881.6	3718.1
30°	4519.7	4525.5	4530.1	4509.2	4529.0	4741.3	5254.0	5657.7	5465.2	5190.2	3837.6
32.5°	4865.4	4877.0	4837.6	4784.2	4767.9	4897.9	5392.1	5980.2	5846.8	5503.4	3955.9
35°	5273.7	5303.9	5223.9	5129.9	5063.8	5122.9	5577.7	6309.7	6237.8	5903.7	4112.5
37.5°	5740.1	5777.2	5703.0	5518.5	5424.6	5440.8	5820.1	6716.9	6732.0	6359.6	4345.7
40°	6121.8	6170.5	6172.8	5911.8	5769.1	5787.7	6127.6	7155.4	7328.3	6923.4	4620.6
42.5°	6373.5	6421.1	6470.9	6317.8	6168.2	6273.7	6486.0	7631.0	7998.8	7607.8	5004.6
45°	6649.6	6692.5	6720.4	6650.8	6567.2	6841.0	6918.7	8136.8	8713.4	8372.3	5424.6
47.5°	6969.8	7017.3	7044.0	6977.9	6946.6	7338.7	7385.1	8609.0	9476.7	9114.8	5888.6
50°	7396.7	7432.7	7418.7	7377.0	7370.0	7720.4	7832.9	9051.0	10106.7	9914.1	6370.0
52.5°	7928.0	7970.9	7986.0	7926.9	7900.2	7993.0	8193.7	9453.5	10679.7	10600.8	6883.9
55°	8249.4	8317.8	8547.5	8640.3	8704.1	8345.6	8582.3	9897.8	11193.7	11324.7	7436.1
57.5°	7837.5	7925.7	8439.6	8903.6	9503.4	9227.3	9133.3	10361.9	11707.6	12026.6	8097.4
60°	6832.9	6852.6	7515.0	8370.0	9576.5	10360.7	10283.0	11099.7	12264.4	12734.2	8968.6
62.5°	4740.1	4781.9	5564.9	6929.2	8673.9	10769.1	12238.9	12373.5	13062.5	13793.4	10245.9
65°	2444.3	2389.8	3103.2	4355.0	6539.4	9799.2	13823.6	14715.7	14793.4	15450.0	12044.0
67.5°	1504.6	1529.0	1863.1	2542.9	3866.6	7121.8	13657.7	17577.6	17168.1	17483.6	13713.4
70°	1129.9	1160.1	1389.8	1740.1	2357.3	4071.9	10983.7	18271.3	18843.2	18762.0	14221.5
71°	982.6	1013.9	1252.9	1583.5	1980.3	3142.7	9254.0	17545.1	18901.3	18887.3	14030.1
72.5°	837.6	857.3	1044.1	1341.1	1669.4	2203.0	6952.4	15735.4	18095.0	18557.9	13346.8
75°	657.8	672.8	756.4	1023.2	1314.4	1352.7	3730.8	11796.9	14861.8	15743.5	11111.3
77.5°	536.0	546.4	589.3	759.9	1013.9	958.2	1957.1	7678.6	9310.8	10198.3	6545.2
80°	425.8	437.4	462.9	515.1	759.9	683.3	933.9	3890.9	4497.6	4488.4	2612.5
82.5°	330.6	334.1	364.3	378.2	519.7	484.9	505.8	1647.3	1824.8	1885.1	943.1
85°	208.8	219.3	322.5	290.0	310.9	284.2	249.4	654.3	806.3	794.7	377.0
87.5°	63.8	67.3	109.0	123.0	138.1	124.1	91.6	192.6	235.5	255.2	94.0
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°	2590.5	2590.5	2590.5	2590.5	2590.5	2590.5	2590.5	2590.5	2590.5	2590.5	2590.5
2.5°	2605.5	2592.8	2547.5	2510.4	2475.6	2437.3	2404.9	2395.6	2387.5	2384.0	2382.8
5°	2629.9	2591.6	2502.3	2429.2	2371.2	2317.8	2284.2	2269.1	2254.0	2254.0	2258.7
7.5°	2664.7	2595.1	2457.1	2348.0	2274.9	2225.0	2200.7	2198.4	2201.8	2205.3	2206.5
10°	2703.0	2592.8	2390.9	2255.2	2190.2	2167.0	2168.2	2187.9	2206.5	2220.4	2222.7
12.5°	2740.1	2578.9	2313.2	2168.2	2126.4	2131.1	2163.6	2207.6	2243.6	2263.3	2264.5
15°	2781.9	2556.8	2219.2	2085.8	2071.9	2107.9	2168.2	2235.5	2290.0	2322.5	2326.0
17.5°	2816.7	2519.7	2120.6	2005.8	2023.2	2089.3	2172.8	2259.8	2326.0	2366.6	2373.5
20°	2856.1	2472.1	2018.5	1929.2	1979.1	2068.4	2163.6	2257.5	2326.0	2365.4	2374.7
22.5°	2887.4	2404.9	1921.1	1866.6	1939.7	2042.9	2132.2	2207.6	2263.3	2284.2	2298.1
25°	2900.2	2320.2	1829.5	1815.5	1908.3	2001.1	2061.5	2104.4	2121.8	2119.5	2125.3
27.5°	2893.2	2222.7	1750.6	1774.9	1868.9	1936.2	1966.3	1962.9	1931.5	1902.5	1916.5
30°	2864.2	2106.7	1684.4	1733.2	1817.9	1855.0	1850.3	1805.1	1745.9	1691.4	1694.9
32.5°	2812.0	1981.4	1623.0	1685.6	1745.9	1762.2	1730.8	1671.7	1587.0	1516.2	1505.8
35°	2768.0	1861.9	1568.4	1631.1	1674.0	1665.9	1635.7	1559.2	1482.6	1419.9	1409.5
37.5°	2761.0	1759.8	1516.2	1569.6	1594.0	1582.4	1545.2	1480.3	1452.4	1404.9	1399.1
40°	2798.1	1687.9	1462.9	1504.6	1516.2	1506.9	1466.3	1429.2	1454.7	1443.1	1443.1
42.5°	2899.1	1649.6	1415.3	1439.7	1448.9	1455.9	1426.9	1395.6	1426.9	1373.5	1356.1
45°	3059.1	1650.8	1372.4	1375.9	1403.7	1428.1	1408.3	1361.9	1345.7	1239.0	1218.1
47.5°	3294.6	1690.2	1337.6	1315.5	1365.4	1406.0	1378.2	1310.9	1239.0	1168.2	1155.4
50°	3569.6	1761.0	1306.3	1252.9	1314.4	1378.2	1357.3	1278.4	1204.2	1161.2	1153.1
52.5°	3874.7	1850.3	1268.0	1183.3	1251.7	1365.4	1361.9	1273.8	1171.7	1142.7	1135.7
55°	4251.7	1938.5	1220.4	1102.1	1196.0	1355.0	1349.2	1235.5	1164.7	1143.8	1141.5
57.5°	4690.2	2066.1	1152.0	1019.7	1132.2	1312.1	1299.3	1212.3	1141.5	1126.4	1125.3
60°	5396.7	2264.5	1054.5	944.3	1067.3	1236.6	1252.9	1172.8	1104.4	1100.9	1099.8
62.5°	6325.9	2542.9	953.6	866.6	991.9	1139.2	1185.6	1119.5	1065.0	1082.4	1084.7
65°	7609.0	2777.2	849.2	800.5	908.3	1045.2	1121.8	1069.6	1020.9	1054.5	1054.5
67.5°	8445.4	2781.9	754.1	732.0	823.7	966.4	1054.5	1010.4	964.0	1020.9	1023.2
70°	8271.4	2437.3	675.2	660.1	741.3	881.7	980.3	945.5	892.1	943.1	924.6
71°	7990.7	2245.9	643.8	632.2	708.8	841.1	945.5	916.5	863.1	896.7	886.3
72.5°	7542.9	1950.1	592.8	595.1	660.1	790.0	896.7	866.6	813.2	831.8	828.3
75°	6375.8	1703.0	507.0	517.4	567.3	703.0	799.3	776.1	721.6	721.6	718.1
77.5°	3986.0	1190.2	421.1	426.9	481.4	602.1	686.8	667.0	614.8	597.4	592.8
80°	1487.2	614.8	329.5	336.4	370.1	474.5	568.4	549.9	496.5	476.8	458.2
82.5°	562.6	308.6	242.5	236.7	272.6	361.9	445.5	423.4	381.7	334.1	320.2
85°	212.3	153.1	148.5	143.9	160.1	214.6	276.1	271.5	227.4	193.7	190.3
87.5°	55.7	49.9	58.0	42.9	45.2	40.6	41.8	17.4	8.1	3.5	2.3
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)