

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: P522929

Luminaire Tested: **GALN-SA9D-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58693 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

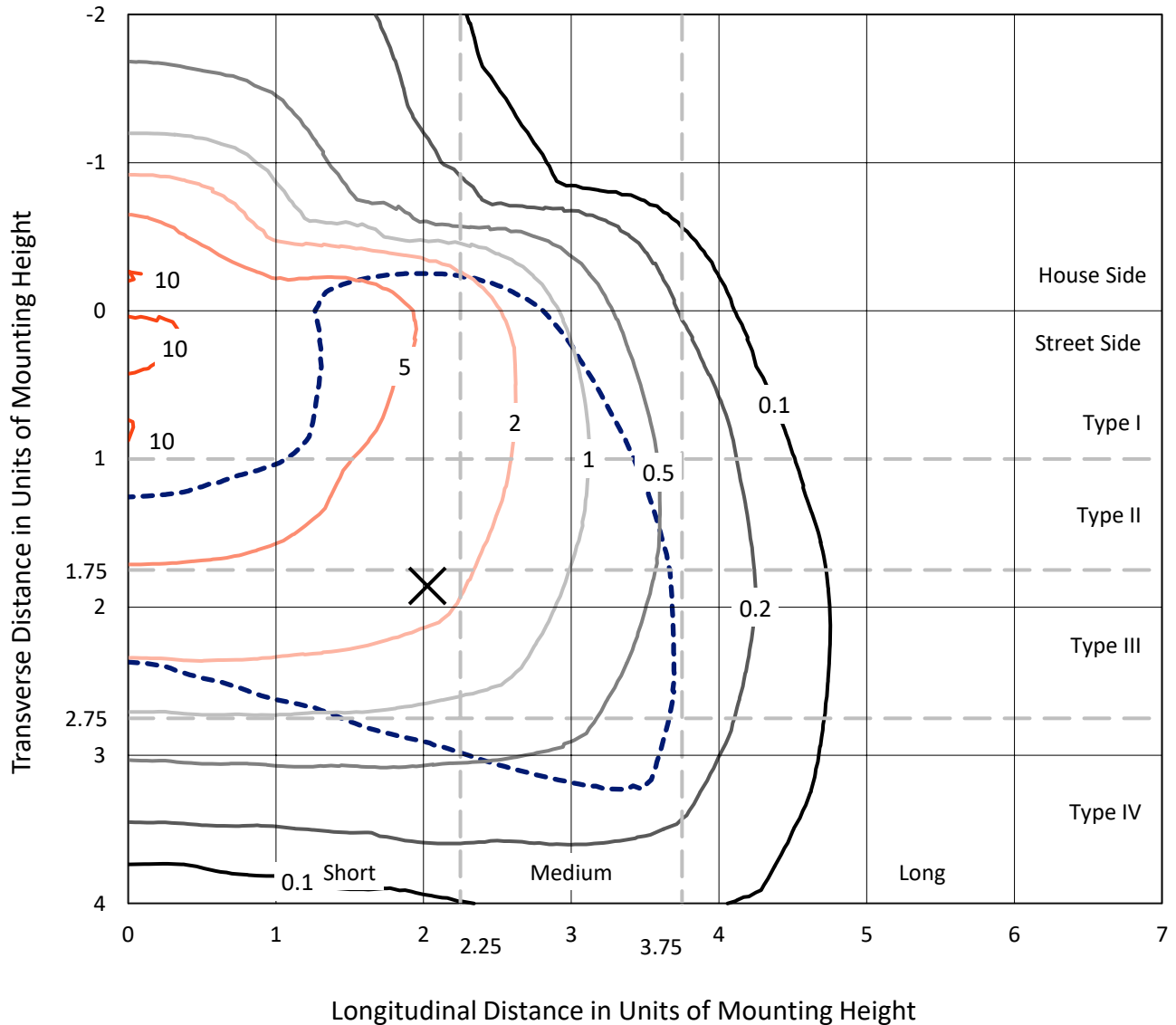
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

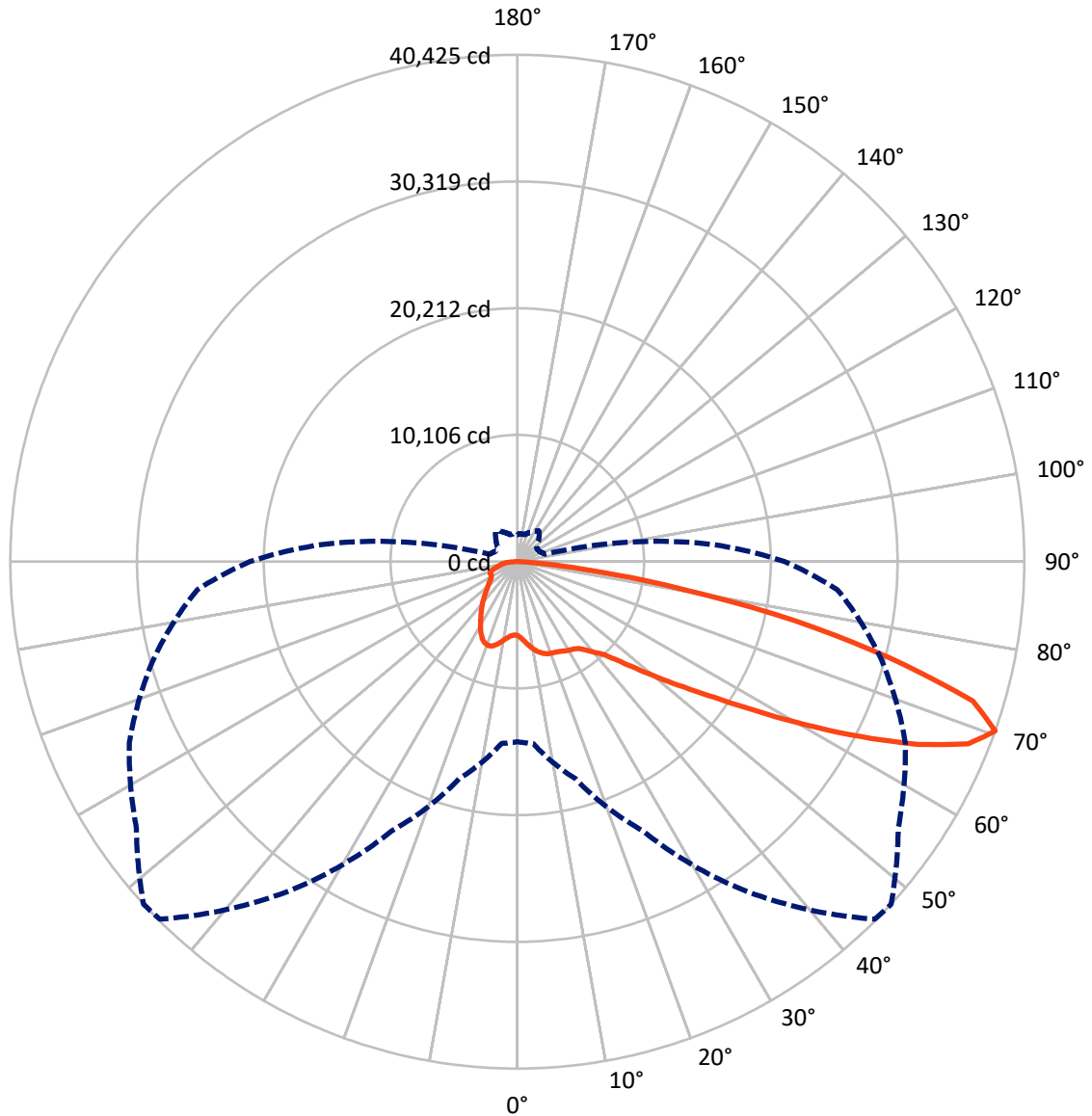
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13289.2	0.0	13289.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	45403.8	0.0	45403.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	58693.0	0.0	58693.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.3	1.0
10°-20°	2030.4	3.5
20°-30°	3376.6	5.8
30°-40°	4785.8	8.2
40°-50°	7064.8	12.0
50°-60°	12236.6	20.8
60°-70°	17284.5	29.4
70°-80°	9936.1	16.9
80°-90°	1370.9	2.3
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°	58693.0	100.0
0°-180°	58693.0	100.0

Coefficient of Utilization



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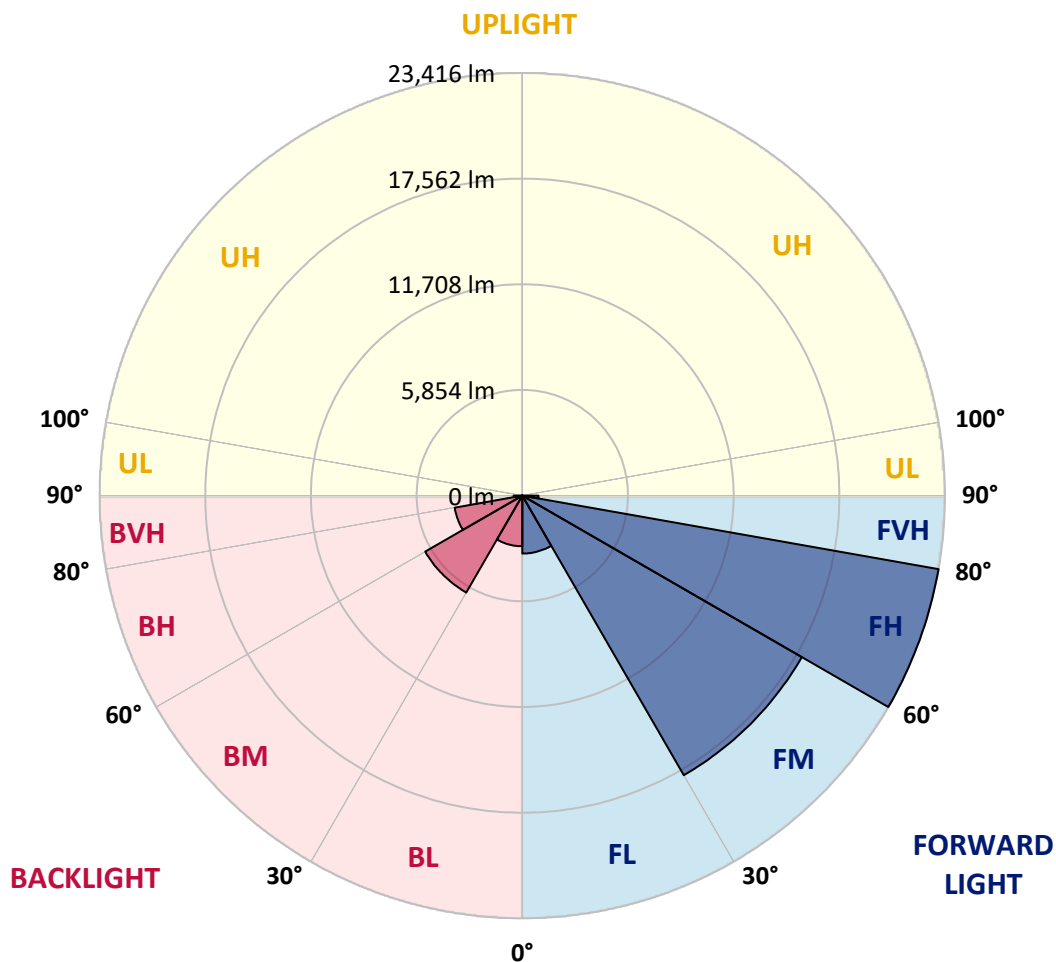
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3209.5	5.5			
FM	(30°-60°)	17882.6	30.5			
FH	(60°-80°)	23416.1	39.9			G5
FVH	(80°-90°)	895.5	1.5			G5
BL	(0°-30°)	2804.8	4.8	B4/5000		
BM	(30°-60°)	6204.5	10.6	B4/8500		
BH	(60°-80°)	3804.5	6.5	B4/5000		G4/5000
BVH	(80°-90°)	475.4	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	5892.1	5892.1	5892.1	5892.1	5892.1	5892.1	5892.1	5892.1	5892.1	5892.1	5892.1
2.5°	6272.1	6250.1	6247.0	6199.9	6174.7	6127.6	6108.8	6064.8	6011.4	5958.0	5907.8
5°	6765.2	6765.2	6743.2	6677.3	6573.6	6466.8	6419.7	6334.9	6184.2	6061.7	5958.0
7.5°	7270.9	7277.1	7233.2	7135.8	6988.2	6815.5	6771.5	6645.9	6432.3	6253.3	6099.4
10°	7707.4	7707.4	7647.8	7515.8	7330.5	7142.1	7098.1	6956.8	6718.1	6495.1	6294.1
12.5°	8040.4	8040.4	7961.8	7789.1	7588.1	7418.5	7368.2	7233.2	7010.2	6762.1	6507.7
15°	8257.1	8241.4	8153.4	7958.7	7764.0	7616.3	7581.8	7468.7	7264.6	7013.3	6727.5
17.5°	8266.5	8260.2	8175.4	8012.1	7842.5	7742.0	7720.0	7644.6	7484.4	7245.7	6944.2
20°	8084.3	8096.9	8040.4	7924.1	7842.5	7798.5	7789.1	7764.0	7650.9	7427.9	7126.4
22.5°	7889.6	7911.6	7858.2	7795.4	7789.1	7833.1	7839.3	7845.6	7773.4	7556.7	7280.3
25°	7842.5	7858.2	7804.8	7748.3	7782.8	7899.0	7924.1	7949.3	7892.7	7710.6	7462.5
27.5°	8081.2	8068.6	7965.0	7842.5	7864.5	8021.5	8056.1	8084.3	8056.1	7899.0	7688.6
30°	8756.4	8715.6	8508.3	8150.3	8037.2	8147.1	8181.7	8260.2	8260.2	8144.0	7933.6
32.5°	9887.1	9808.6	9428.6	8725.0	8332.4	8266.5	8301.0	8429.8	8495.8	8404.7	8175.4
35°	11259.6	11178.0	10634.6	9689.3	8872.7	8505.2	8495.8	8640.2	8816.1	8612.0	8313.6
37.5°	12638.4	12553.6	11900.4	10838.8	9661.0	9007.7	8951.2	9001.4	9076.8	8703.1	8505.2
40°	14017.2	13916.7	13345.1	12123.3	10625.2	9673.5	9525.9	9299.8	9268.4	9001.4	8875.8
42.5°	15383.5	15292.4	15003.4	13565.0	11781.0	10323.7	10097.6	9708.1	9827.4	9667.3	9557.3
45°	16762.3	16768.5	16460.7	15182.4	13175.5	11523.5	11218.8	10609.5	10892.2	10832.5	10895.3
47.5°	17984.0	17968.3	17858.4	16752.8	14906.1	13068.7	12676.1	11969.4	12453.1	12673.0	13153.5
50°	19168.1	19158.7	19164.9	18533.6	16916.1	14906.1	14472.6	13731.4	14821.3	15584.5	16445.0
52.5°	20864.1	20917.5	20537.4	20371.0	19359.7	17076.3	16598.9	15832.6	17619.7	18822.6	20502.9
55°	22566.4	22522.4	22224.0	22396.8	21916.2	19645.5	19146.1	18536.8	20735.3	22051.3	24576.5
57.5°	23568.3	23584.0	23888.6	24733.5	25072.7	22849.0	22396.8	21925.7	24237.3	25170.1	28200.9
60°	24469.7	24541.9	25418.2	27013.7	27933.9	26784.4	26382.4	25923.9	27450.3	27820.9	31348.0
62.5°	24752.4	24975.3	26504.9	28891.9	30722.9	31225.5	30726.1	29714.8	30509.4	30364.9	33480.5
65°	23342.1	23646.8	26388.7	29595.4	33213.6	35440.4	35123.2	33245.0	33116.2	32246.2	33829.2
67.5°	19629.8	19934.4	23455.2	28119.2	34243.7	39089.9	38772.7	35820.4	34699.1	32422.1	31190.9
70°	14362.7	14554.3	17921.2	23675.1	32174.0	40314.8	40424.8	37076.7	34133.8	30032.0	25609.8
72.5°	8275.9	8699.9	11058.6	16655.5	26285.0	37218.0	37981.2	34463.6	30559.6	25053.9	17905.5
75°	3558.5	3567.9	5113.2	9186.7	17801.8	29915.8	30653.8	28568.4	23998.6	17324.4	9560.5
77.5°	1692.9	1724.3	2248.8	4101.8	9799.2	20669.4	22660.6	20182.5	15348.9	8323.0	3611.9
80°	1099.3	1121.3	1375.7	2035.2	4805.4	11985.2	13373.4	11642.8	6771.5	2974.3	1557.8
82.5°	665.8	672.1	920.2	1243.7	2644.5	5427.2	6397.7	5053.5	2889.5	1780.8	917.1
85°	405.2	408.3	559.1	769.5	1604.9	1875.0	1925.3	1909.6	1696.0	1165.2	490.0
87.5°	194.7	201.0	289.0	364.3	631.3	581.0	549.6	637.6	800.9	628.2	210.4
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°	5892.1	5892.1	5892.1	5892.1	5892.1	5892.1	5892.1	5892.1	5892.1	5892.1	5892.1
2.5°	5885.8	5876.4	5854.4	5845.0	5838.7	5841.8	5838.7	5838.7	5841.8	5841.8	5841.8
5°	5914.1	5898.4	5863.8	5863.8	5882.6	5926.6	5967.4	5998.9	6033.4	6030.3	6030.3
7.5°	6036.5	6008.3	5967.4	5980.0	6027.1	6096.2	6168.5	6237.6	6306.7	6312.9	6309.8
10°	6215.6	6187.3	6143.3	6159.0	6234.4	6338.1	6429.1	6529.6	6605.0	6627.0	6620.7
12.5°	6419.7	6363.2	6325.5	6369.5	6488.8	6627.0	6715.0	6790.3	6843.7	6875.1	6862.6
15°	6627.0	6573.6	6529.6	6620.7	6765.2	6894.0	6937.9	6950.5	6959.9	6991.3	6985.1
17.5°	6828.0	6755.8	6740.1	6859.4	6997.6	7054.2	7029.0	6975.6	6934.8	6959.9	6956.8
20°	7007.0	6950.5	6944.2	7063.6	7117.0	7063.6	6956.8	6862.6	6790.3	6796.6	6793.5
22.5°	7176.6	7132.7	7139.0	7189.2	7104.4	6922.2	6746.4	6617.6	6539.1	6554.8	6564.2
25°	7365.1	7321.1	7336.8	7255.2	6975.6	6658.4	6404.0	6294.1	6262.7	6294.1	6316.1
27.5°	7610.1	7581.8	7572.4	7258.3	6746.4	6269.0	5980.0	5939.2	5967.4	6036.5	6071.1
30°	7873.9	7873.9	7823.6	7204.9	6432.3	5801.0	5549.7	5556.0	5653.4	5750.7	5785.3
32.5°	8128.3	8181.7	8024.6	7060.4	6027.1	5345.6	5154.0	5160.3	5245.1	5364.4	5395.8
35°	8338.7	8492.6	8197.4	6796.6	5549.7	4962.4	4817.9	4733.1	4736.3	4827.4	4852.5
37.5°	8627.7	8913.5	8297.9	6404.0	5040.9	4635.8	4472.4	4324.8	4227.5	4189.8	4189.8
40°	9130.2	9551.1	8323.0	5823.0	4560.4	4324.8	4092.4	3916.5	3728.1	3558.5	3527.1
42.5°	9981.3	10512.1	8272.8	5154.0	4127.0	3982.5	3756.4	3539.6	3279.0	3040.3	3021.4
45°	11488.9	11762.2	8137.7	4459.9	3740.6	3652.7	3432.9	3197.3	2920.9	2707.3	2691.6
47.5°	13904.2	13517.8	7958.7	3844.3	3388.9	3363.8	3194.2	2920.9	2644.5	2496.9	2481.2
50°	17431.2	16281.7	7933.6	3398.3	3106.2	3118.8	2980.6	2729.3	2487.5	2365.0	2346.1
52.5°	21677.5	19620.3	8100.0	3084.2	2858.1	2905.2	2836.1	2603.7	2390.1	2286.5	2267.6
55°	25798.2	22622.9	8200.5	2839.2	2625.7	2713.6	2723.0	2528.3	2333.6	2229.9	2217.4
57.5°	29143.1	24884.3	7754.5	2616.3	2424.7	2559.7	2628.8	2484.3	2305.3	2226.8	2214.2
60°	31470.4	25952.1	6485.7	2418.4	2277.1	2437.2	2594.3	2487.5	2374.4	2383.8	2390.1
62.5°	32211.7	25477.9	4865.0	2270.8	2176.5	2396.4	2650.8	2616.3	2500.0	2572.3	2584.8
65°	30983.6	23518.0	3527.1	2154.6	2088.6	2424.7	2820.4	2710.5	2456.1	2509.5	2509.5
67.5°	26872.4	20261.1	2745.0	2047.8	1988.1	2478.1	2990.0	2701.1	2352.4	2415.2	2358.7
70°	21316.4	15672.4	2286.5	1928.4	1881.3	2399.5	3005.7	2603.7	2229.9	2242.5	2135.7
72.5°	14146.0	10304.8	1966.1	1815.4	1718.0	2157.7	2876.9	2478.1	2110.6	2038.4	1931.6
75°	6931.7	5138.3	1714.9	1674.0	1504.4	1878.2	2701.1	2358.7	1981.8	1868.8	1809.1
77.5°	2685.4	2186.0	1463.6	1495.0	1309.7	1655.2	2468.6	2189.1	1812.2	1658.3	1611.2
80°	1303.4	1240.6	1199.8	1246.9	1077.3	1410.2	2255.1	2041.5	1655.2	1485.6	1416.5
82.5°	810.3	766.3	920.2	970.5	829.2	1287.7	2138.9	1915.9	1457.3	1231.2	1174.6
85°	411.4	439.7	615.6	662.7	593.6	1023.9	1762.0	1438.5	1052.2	873.1	879.4
87.5°	157.0	210.4	323.5	348.6	317.2	540.2	970.5	838.6	675.3	458.6	424.0
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)