

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: P456733

Luminaire Tested: **GALN-SA8A-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456733
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-SA8A-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33823 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

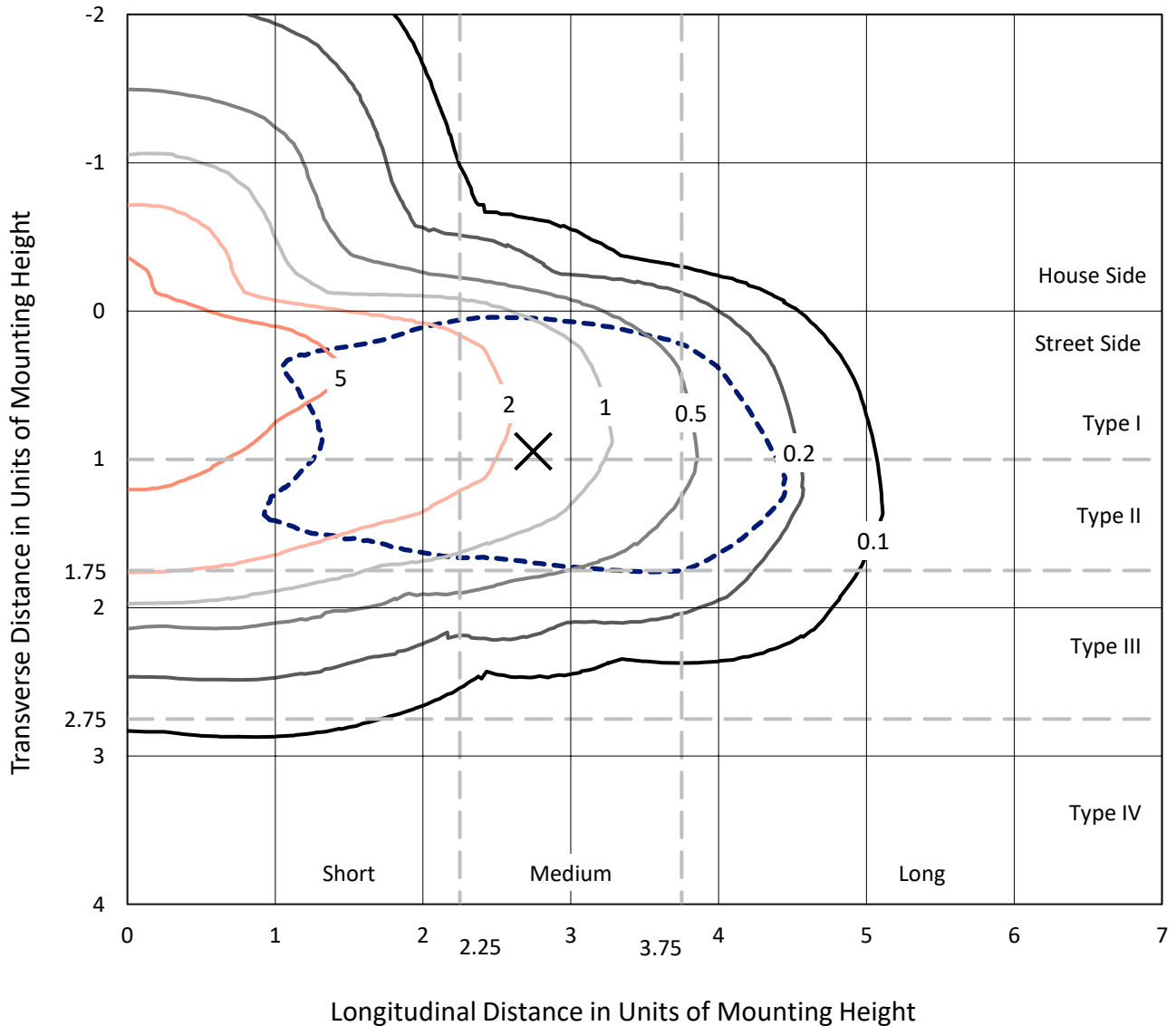
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

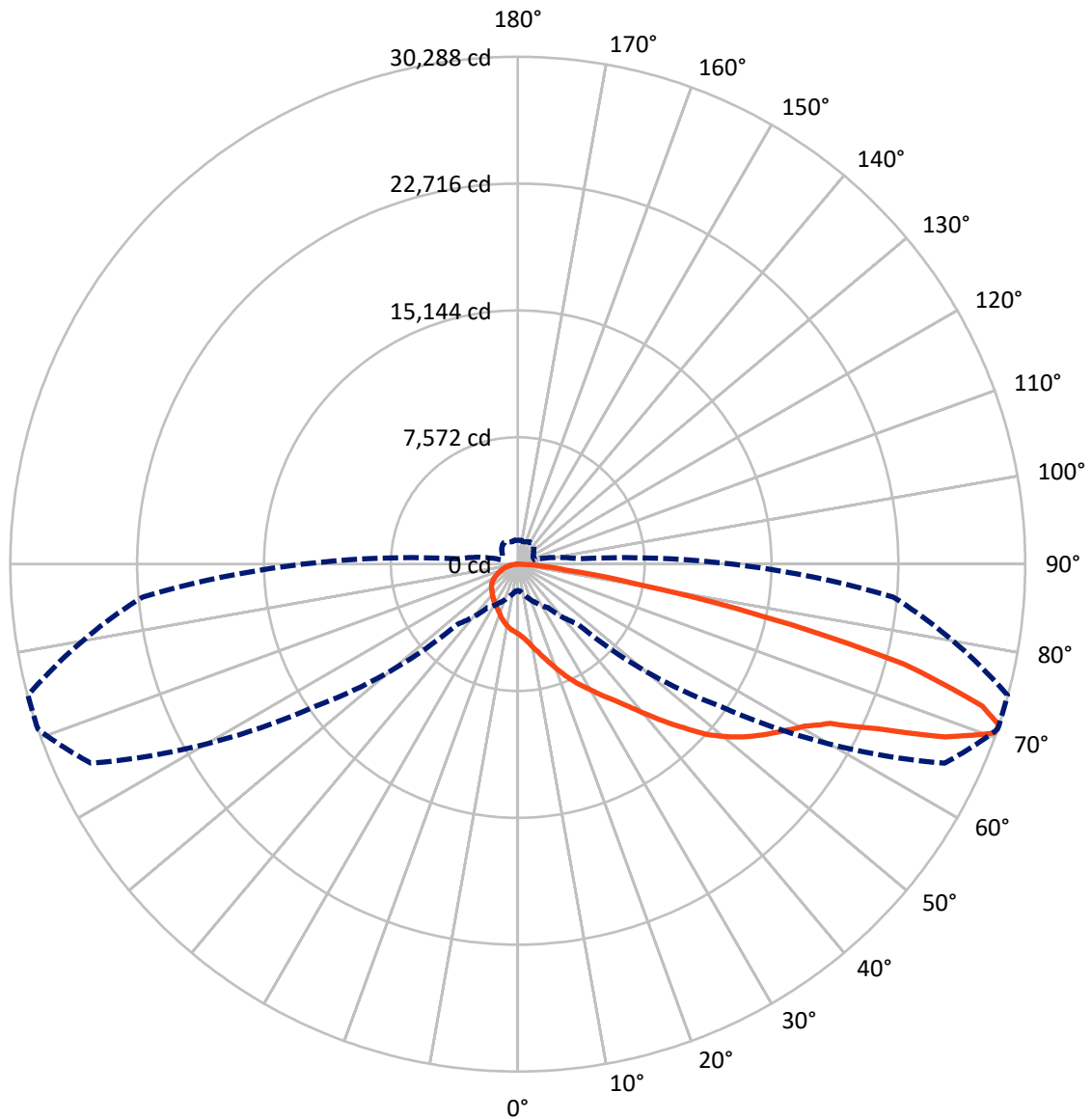
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	6083.0	0.0	6083.0
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	27740.0	0.0	27740.0
	% Fixture	82.0	0.0	82.0
Total	Lumens	33823.0	0.0	33823.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.8	1.2
10°-20°	1354.1	4.0
20°-30°	2366.5	7.0
30°-40°	3519.8	10.4
40°-50°	5186.0	15.3
50°-60°	7260.5	21.5
60°-70°	8120.6	24.0
70°-80°	4960.4	14.7
80°-90°	638.1	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°	33823.0	100.0
0°-180°	33823.0	100.0

Coefficient of Utilization



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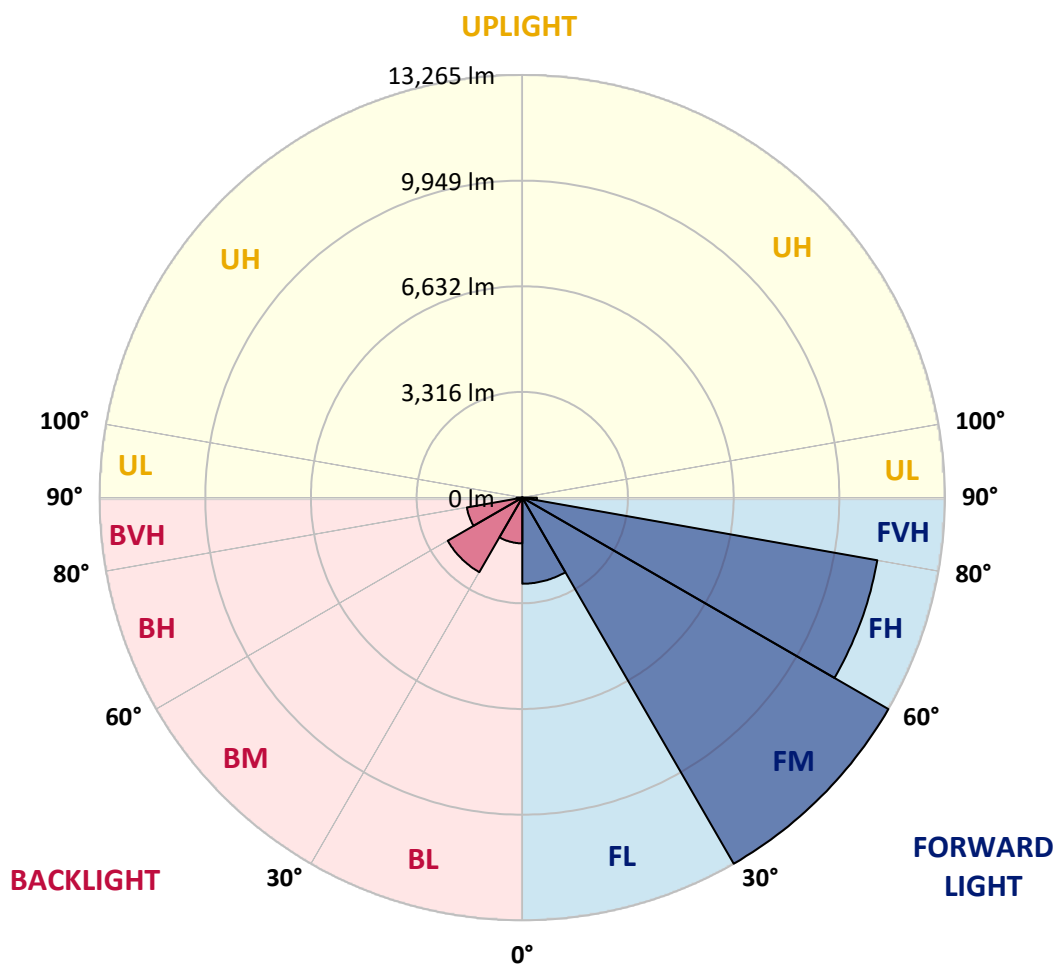
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2702.5	8.0			
FM	(30°-60°)	13264.7	39.2			
FH	(60°-80°)	11313.7	33.4			G4/12000
FVH	(80°-90°)	459.1	1.4			G3/500
BL	(0°-30°)	1435.0	4.2	B3/2500		
BM	(30°-60°)	2701.7	8.0	B3/5000		
BH	(60°-80°)	1767.4	5.2	B3/2500		G3/2500
BVH	(80°-90°)	179.0	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°	4151.1	4151.1	4151.1	4151.1	4151.1	4151.1	4151.1	4151.1	4151.1	4151.1	4151.1
2.5°	4608.4	4586.1	4588.0	4556.4	4515.5	4470.9	4407.6	4351.9	4307.3	4281.2	4205.0
5°	5106.6	5084.3	5056.4	4987.6	4957.9	4848.2	4708.8	4582.4	4485.7	4431.8	4279.4
7.5°	5510.0	5504.4	5497.0	5458.0	5381.8	5229.3	5110.3	4891.0	4747.8	4645.6	4385.3
10°	5759.1	5768.4	5774.0	5781.4	5749.8	5669.9	5506.3	5229.3	5047.1	4917.0	4522.9
12.5°	5885.5	5894.8	5926.4	5995.2	6038.0	6028.7	5894.8	5623.4	5372.5	5201.4	4669.8
15°	5963.6	5978.5	6034.3	6125.3	6268.5	6359.6	6294.5	6043.5	5768.4	5565.8	4844.5
17.5°	6049.1	6065.9	6127.2	6257.3	6445.1	6642.1	6712.8	6497.1	6197.8	5956.2	5039.7
20°	6097.5	6119.8	6207.1	6378.2	6597.5	6883.8	7118.0	7004.6	6677.5	6409.8	5264.6
22.5°	6175.5	6194.1	6268.5	6450.7	6712.8	7071.6	7523.3	7499.1	7211.0	6865.2	5511.9
25°	6387.5	6417.2	6454.4	6564.1	6816.9	7263.0	7859.8	8027.1	7727.8	7341.1	5738.7
27.5°	6787.1	6811.3	6809.4	6824.3	6967.5	7428.5	8151.6	8549.5	8240.9	7822.6	5958.0
30°	7242.6	7251.9	7259.3	7225.9	7257.5	7597.7	8419.3	9066.3	8757.7	8317.1	6149.5
32.5°	7796.6	7815.2	7752.0	7666.4	7640.4	7848.6	8640.5	9583.1	9369.3	8819.0	6339.1
35°	8450.9	8499.3	8371.0	8220.4	8114.5	8209.3	8938.0	10111.0	9995.7	9460.4	6590.1
37.5°	9198.2	9257.7	9138.8	8843.2	8692.6	8718.6	9326.5	10763.5	10787.7	10190.9	6963.7
40°	9809.8	9887.9	9891.6	9473.4	9244.7	9274.5	9819.1	11466.2	11743.2	11094.4	7404.3
42.5°	10213.2	10289.5	10369.4	10124.0	9884.2	10053.4	10393.6	12228.4	12817.7	12191.2	8019.6
45°	10655.7	10724.5	10769.1	10657.5	10523.7	10962.4	11087.0	13038.9	13962.8	13416.3	8692.6
47.5°	11168.8	11245.0	11287.7	11181.8	11131.6	11759.9	11834.3	13795.5	15186.0	14606.0	9436.2
50°	11852.9	11910.5	11888.2	11821.3	11810.1	12371.5	12551.8	14503.8	16195.4	15886.9	10207.7
52.5°	12704.3	12773.1	12797.2	12702.4	12659.7	12808.4	13130.0	15148.8	17113.8	16987.4	11031.2
55°	13219.2	13328.9	13697.0	13845.7	13947.9	13373.5	13752.7	15860.8	17937.3	18147.4	11916.1
57.5°	12559.3	12700.6	13524.1	14267.7	15228.8	14786.3	14635.8	16604.4	18760.8	19272.1	12975.7
60°	10949.4	10981.0	12042.5	13412.6	15345.9	16602.6	16478.0	17786.7	19653.2	20406.0	14371.8
62.5°	7595.8	7662.7	8917.5	11103.7	13899.6	17256.9	19612.3	19827.9	20932.1	22103.3	16418.5
65°	3916.9	3829.5	4972.8	6978.6	10479.1	15702.8	22151.6	23581.2	23705.7	24757.9	19299.9
67.5°	2411.1	2450.1	2985.5	4074.9	6196.0	11412.3	21885.8	28167.3	27511.1	28016.7	21975.0
70°	1810.6	1859.0	2227.1	2788.5	3777.5	6525.0	17600.8	29279.0	30195.4	30065.3	22789.3
71°	1574.6	1624.7	2007.7	2537.5	3173.3	5036.0	14829.1	28115.2	30288.4	30266.1	22482.5
72.5°	1342.2	1373.8	1673.1	2149.0	2675.1	3530.2	11140.9	25215.2	28996.4	29738.1	21387.6
75°	1054.0	1078.2	1212.1	1639.6	2106.2	2167.6	5978.5	18904.0	23815.4	25228.2	17805.3
77.5°	858.8	875.6	944.4	1217.6	1624.7	1535.5	3136.1	12304.6	14920.2	16342.3	10488.4
80°	682.2	700.8	741.7	825.4	1217.6	1094.9	1496.5	6235.0	7207.3	7192.4	4186.4
82.5°	529.8	535.4	583.7	606.0	832.8	777.1	810.5	2639.8	2924.2	3020.8	1511.4
85°	334.6	351.3	516.8	464.7	498.2	455.5	399.7	1048.5	1292.0	1273.4	604.2
87.5°	102.2	107.8	174.7	197.1	221.2	198.9	146.9	308.6	377.4	409.0	150.6
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°	4151.1	4151.1	4151.1	4151.1	4151.1	4151.1	4151.1	4151.1	4151.1	4151.1	4151.1
2.5°	4175.3	4154.8	4082.3	4022.8	3967.1	3905.7	3853.7	3838.8	3825.8	3820.2	3818.3
5°	4214.3	4153.0	4009.8	3892.7	3799.8	3714.2	3660.3	3636.2	3612.0	3612.0	3619.4
7.5°	4270.1	4158.5	3937.3	3762.6	3645.5	3565.5	3526.5	3522.8	3528.3	3533.9	3535.8
10°	4331.4	4154.8	3831.4	3613.9	3509.8	3472.6	3474.4	3506.0	3535.8	3558.1	3561.8
12.5°	4390.9	4132.5	3706.8	3474.4	3407.5	3414.9	3467.0	3537.6	3595.3	3626.9	3628.7
15°	4457.8	4097.2	3556.2	3342.4	3320.1	3377.8	3474.4	3582.3	3669.6	3721.7	3727.3
17.5°	4513.6	4037.7	3398.2	3214.2	3242.1	3348.0	3481.9	3621.3	3727.3	3792.3	3803.5
20°	4576.8	3961.5	3234.6	3091.5	3171.4	3314.6	3467.0	3617.6	3727.3	3790.5	3805.3
22.5°	4627.0	3853.7	3078.5	2991.1	3108.2	3273.7	3416.8	3537.6	3626.9	3660.3	3682.6
25°	4647.5	3718.0	2931.6	2909.3	3058.0	3206.7	3303.4	3372.2	3400.1	3396.4	3405.7
27.5°	4636.3	3561.8	2805.2	2844.2	2994.8	3102.6	3151.0	3145.4	3095.2	3048.7	3071.0
30°	4589.8	3375.9	2699.2	2777.3	2913.0	2972.5	2965.1	2892.6	2797.8	2710.4	2716.0
32.5°	4506.2	3175.1	2600.7	2701.1	2797.8	2823.8	2773.6	2678.8	2543.1	2429.7	2413.0
35°	4435.5	2983.7	2513.3	2613.7	2682.5	2669.5	2621.2	2498.5	2375.8	2275.4	2258.7
37.5°	4424.4	2820.1	2429.7	2515.2	2554.2	2535.7	2476.2	2372.1	2327.4	2251.2	2241.9
40°	4483.9	2704.8	2344.2	2411.1	2429.7	2414.8	2349.8	2290.3	2331.2	2312.6	2312.6
42.5°	4645.6	2643.5	2268.0	2307.0	2321.9	2333.0	2286.5	2236.4	2286.5	2201.0	2173.1
45°	4902.1	2645.3	2199.2	2204.8	2249.4	2288.4	2256.8	2182.4	2156.4	1985.4	1951.9
47.5°	5279.5	2708.5	2143.4	2108.1	2188.0	2253.1	2208.5	2100.6	1985.4	1872.0	1851.5
50°	5720.1	2821.9	2093.2	2007.7	2106.2	2208.5	2175.0	2048.6	1929.6	1860.8	1847.8
52.5°	6209.0	2965.1	2031.9	1896.2	2005.8	2188.0	2182.4	2041.2	1877.6	1831.1	1819.9
55°	6813.2	3106.4	1955.6	1766.0	1916.6	2171.3	2162.0	1979.8	1866.4	1833.0	1829.2
57.5°	7515.9	3310.8	1846.0	1634.0	1814.4	2102.5	2082.1	1942.6	1829.2	1805.1	1803.2
60°	8648.0	3628.7	1689.8	1513.2	1710.3	1981.7	2007.7	1879.4	1769.8	1764.2	1762.3
62.5°	10137.0	4074.9	1528.1	1388.7	1589.4	1825.5	1899.9	1793.9	1706.5	1734.4	1738.1
65°	12193.1	4450.4	1360.8	1282.7	1455.6	1674.9	1797.6	1714.0	1635.9	1689.8	1689.8
67.5°	13533.4	4457.8	1208.3	1173.0	1319.9	1548.5	1689.8	1619.2	1544.8	1635.9	1639.6
70°	13254.5	3905.7	1081.9	1057.8	1187.9	1412.8	1570.8	1515.1	1429.6	1511.4	1481.6
71°	12804.7	3599.0	1031.7	1013.1	1135.8	1347.8	1515.1	1468.6	1383.1	1437.0	1420.3
72.5°	12087.1	3124.9	949.9	953.7	1057.8	1266.0	1437.0	1388.7	1303.1	1332.9	1327.3
75°	10217.0	2729.0	812.4	829.1	909.0	1126.5	1280.8	1243.7	1156.3	1156.3	1150.7
77.5°	6387.5	1907.3	674.8	684.1	771.5	964.8	1100.5	1068.9	985.3	957.4	949.9
80°	2383.2	985.3	528.0	539.1	593.0	760.3	910.9	881.2	795.6	764.0	734.3
82.5°	901.6	494.5	388.5	379.2	436.9	580.0	713.8	678.5	611.6	535.4	513.1
85°	340.2	245.4	237.9	230.5	256.5	343.9	442.4	435.0	364.4	310.4	304.9
87.5°	89.2	79.9	92.9	68.8	72.5	65.1	66.9	27.9	13.0	5.6	3.7
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)