

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: P456958

Luminaire Tested: **GALN-SA8B-730-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456958  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-730-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40960 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

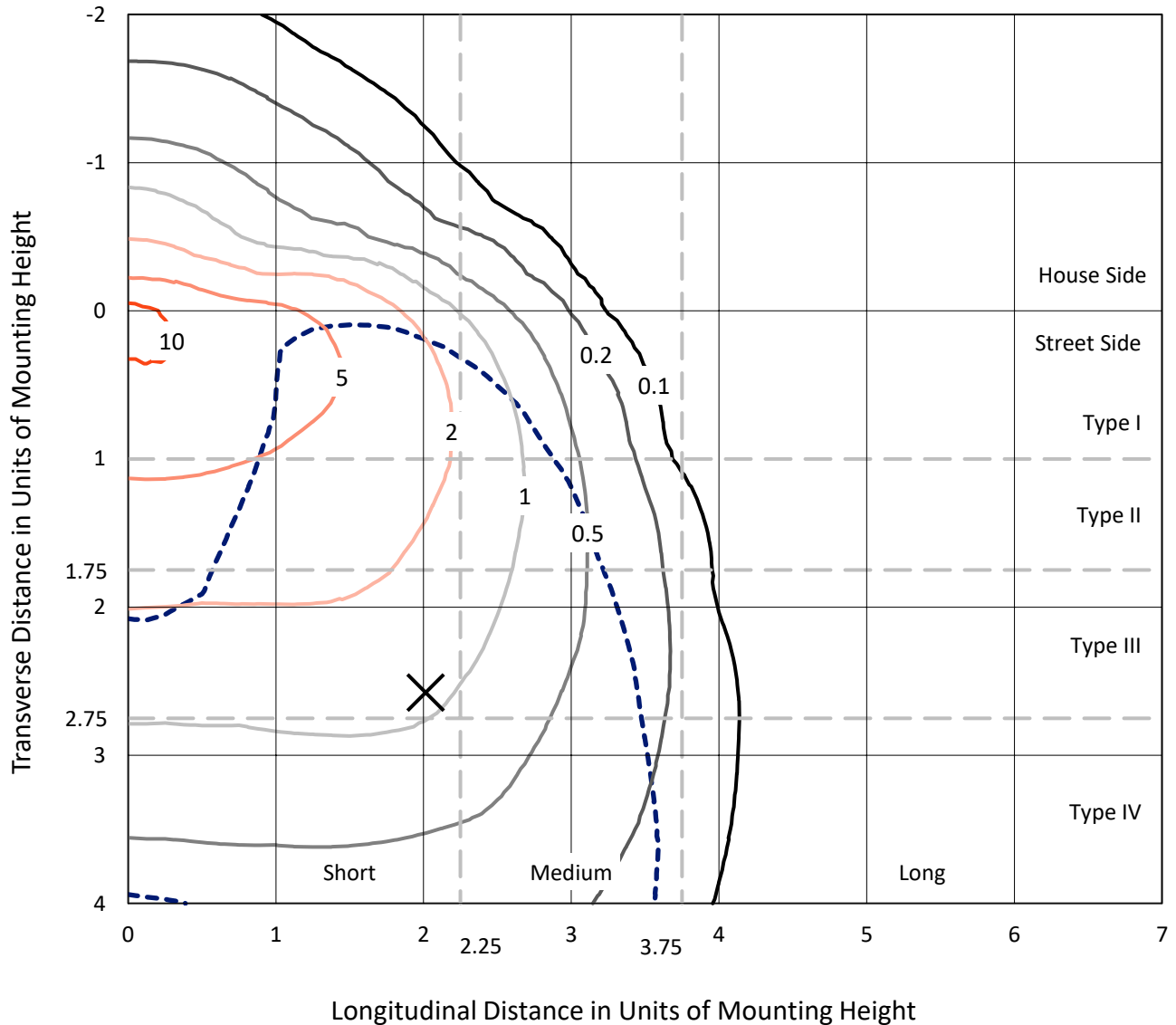
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

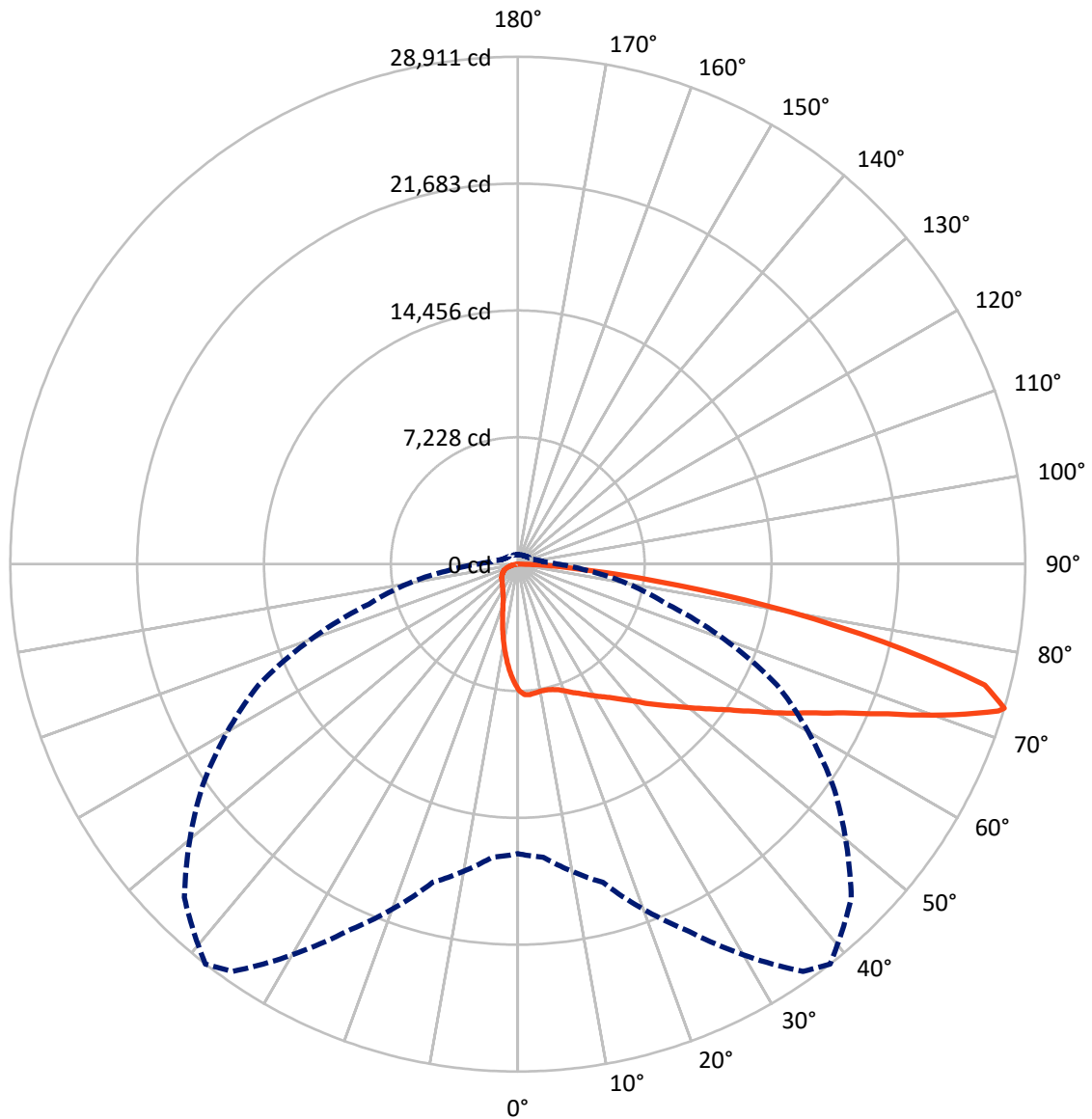
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5506.2	0.0	5506.2
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	35453.8	0.0	35453.8
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	40960.0	0.0	40960.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	628.1	1.5
10°-20°	1610.7	3.9
20°-30°	2508.2	6.1
30°-40°	3679.0	9.0
40°-50°	5457.3	13.3
50°-60°	7732.0	18.9
60°-70°	9808.2	23.9
70°-80°	8164.6	19.9
80°-90°	1371.8	3.3
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°	40960.0	100.0
0°-180°	40960.0	100.0

**Coefficient of Utilization**



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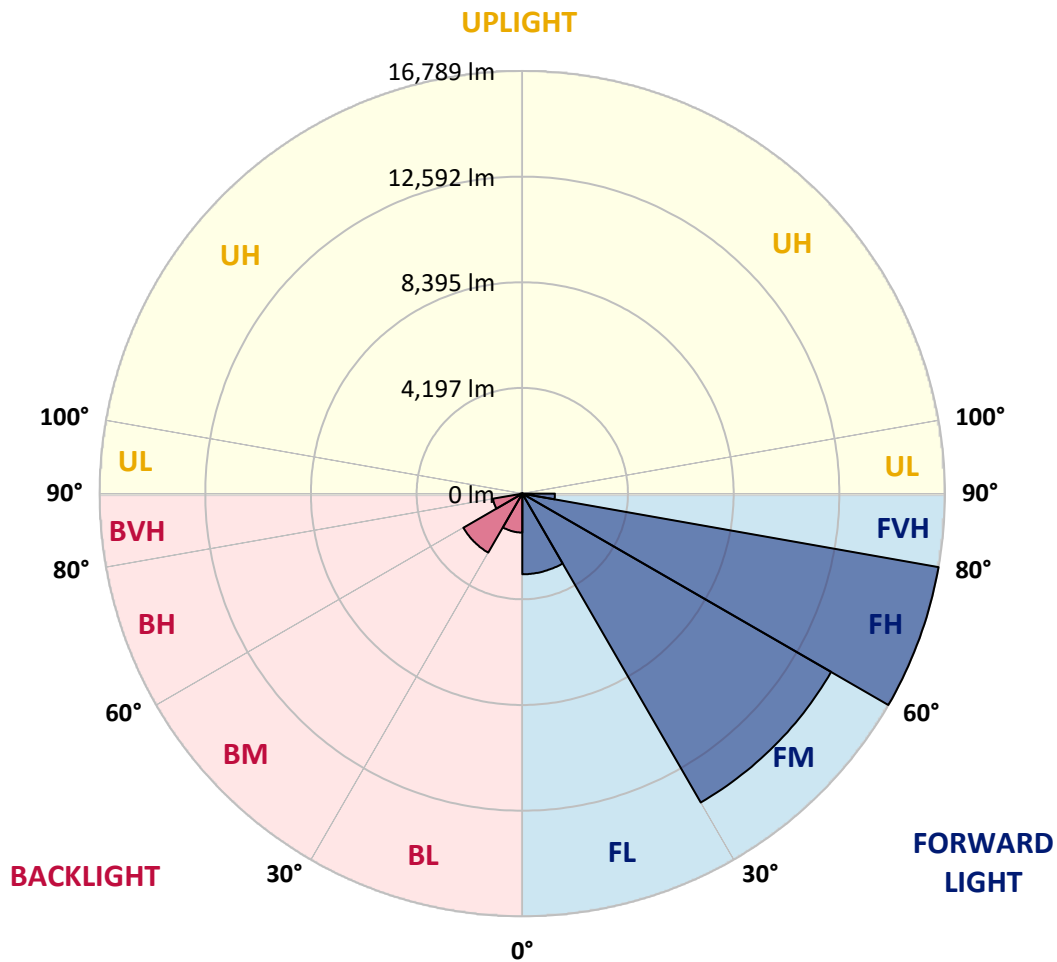
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3202.0	7.8			
FM	(30°-60°)	14165.1	34.6			
FH	(60°-80°)	16789.3	41.0			G5
FVH	(80°-90°)	1297.4	3.2			G5
BL	(0°-30°)	1545.1	3.8	B3/2500		
BM	(30°-60°)	2703.2	6.6	B3/5000		
BH	(60°-80°)	1183.5	2.9	B3/2500		G3/2500
BVH	(80°-90°)	74.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	7196.0	7196.0	7196.0	7196.0	7196.0	7196.0	7196.0	7196.0	7196.0	7196.0	7196.0
2.5°	7485.1	7522.1	7503.6	7478.2	7462.0	7445.8	7422.7	7355.6	7302.4	7244.6	7154.3
5°	7540.6	7563.8	7547.6	7515.2	7478.2	7462.0	7418.0	7330.1	7244.6	7147.4	7013.2
7.5°	7508.2	7517.5	7499.0	7459.7	7427.3	7397.2	7346.3	7249.2	7145.1	7027.1	6851.3
10°	7392.6	7427.3	7427.3	7394.9	7362.5	7346.3	7295.4	7202.9	7108.1	6973.9	6765.7
12.5°	7297.8	7334.8	7364.8	7355.6	7353.3	7353.3	7313.9	7244.6	7133.5	7006.3	6758.8
15°	7233.0	7276.9	7341.7	7378.7	7401.8	7408.8	7392.6	7332.4	7219.1	7071.1	6786.6
17.5°	7219.1	7272.3	7390.3	7471.2	7531.4	7529.1	7524.4	7441.2	7316.3	7163.6	6821.3
20°	7281.6	7351.0	7515.2	7642.4	7730.3	7714.1	7688.7	7579.9	7434.2	7263.1	6853.6
22.5°	7468.9	7540.6	7721.0	7859.8	7945.4	7945.4	7869.1	7725.7	7570.7	7378.7	6897.6
25°	7737.2	7815.9	8007.9	8149.0	8188.3	8158.2	8081.9	7908.4	7730.3	7545.3	6990.1
27.5°	8065.7	8160.5	8338.6	8456.6	8445.0	8421.9	8343.3	8121.2	7943.1	7774.2	7147.4
30°	8475.1	8544.5	8729.5	8757.3	8715.7	8711.0	8600.0	8378.0	8211.4	8081.9	7371.8
32.5°	8861.4	8923.8	9071.9	9083.4	9009.4	9018.7	8914.6	8711.0	8616.2	8569.9	7748.8
35°	9270.8	9303.2	9430.4	9416.5	9368.0	9361.0	9319.4	9125.1	9155.2	9238.4	8283.1
37.5°	9613.1	9677.9	9749.6	9761.2	9758.9	9782.0	9809.8	9717.2	9890.7	10152.1	8984.0
40°	9927.7	9983.2	10089.6	10126.6	10216.9	10263.1	10358.0	10360.3	10760.4	11190.7	9846.8
42.5°	10140.5	10235.4	10434.3	10501.4	10721.1	10859.9	11001.0	11151.3	11731.9	12284.7	10864.5
45°	10325.6	10450.5	10781.2	10989.4	11287.8	11456.7	11755.0	12069.6	12904.6	13628.6	11898.5
47.5°	10605.5	10716.5	11095.8	11463.6	11914.7	12109.0	12555.4	13024.9	14116.7	14910.1	12888.5
50°	10994.0	11061.1	11447.4	12046.5	12622.5	12872.3	13462.1	14139.8	15412.0	16175.3	13758.2
52.5°	11491.4	11519.1	11826.8	12624.8	13383.5	13693.4	14475.2	15266.3	16545.4	17274.0	14447.5
55°	12078.9	12032.6	12273.2	13237.7	14253.2	14658.0	15497.6	16406.6	17819.9	18162.3	14949.4
57.5°	12659.5	12587.8	12779.7	13982.5	15326.4	15814.5	16792.9	17581.7	18958.0	18992.7	15301.0
60°	13274.7	13221.5	13450.5	14856.9	16642.6	17220.8	18125.3	18800.7	20059.0	19570.9	15356.5
62.5°	13906.2	13820.6	14146.8	15839.9	18125.3	18650.3	19527.0	20096.0	21139.2	19786.0	14822.2
65°	14519.2	14479.9	14984.1	17008.0	19813.8	20410.6	21261.8	21648.1	22004.3	19462.2	13496.8
67.5°	15171.5	15250.1	16055.1	18567.1	22015.9	22765.3	23683.6	23320.4	22251.8	17928.6	11366.5
70°	16166.1	16217.0	17461.4	20609.5	24854.0	25758.4	26202.5	23914.9	21058.2	15016.5	8544.5
72.5°	16594.0	16818.4	18717.4	22753.7	28078.4	28631.2	27049.1	22589.5	17542.4	10200.7	4489.7
73°	16499.2	16767.5	18775.2	23079.9	28330.5	28911.1	26868.7	21907.1	16307.2	8785.1	3849.0
75°	15317.2	15648.0	18023.5	22806.9	27840.2	27493.2	23968.1	18671.1	11019.5	3994.7	1753.3
77.5°	12085.8	12180.7	14280.9	18416.7	21923.3	21280.3	17937.9	11669.5	4501.2	1485.0	994.6
80°	6062.6	6411.8	8049.5	10549.9	14660.3	14449.8	11322.5	5519.0	1875.9	872.0	659.2
82.5°	2916.8	3164.3	3920.7	5144.3	8100.4	7908.4	5606.9	3016.3	1191.2	508.9	388.6
85°	1878.2	2063.3	2495.8	2454.2	3330.8	3180.5	2518.9	2283.0	705.5	266.0	270.6
87.5°	1239.8	1357.8	1628.4	1302.3	1212.1	1096.4	1112.6	1286.1	138.8	101.8	37.0
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°	7196.0	7196.0	7196.0	7196.0	7196.0	7196.0	7196.0	7196.0	7196.0	7196.0	7196.0
2.5°	7117.3	7087.3	6987.8	6890.7	6798.1	6710.2	6652.4	6576.1	6525.2	6539.1	6559.9
5°	6939.2	6872.1	6696.4	6525.2	6363.3	6171.3	6016.3	5891.4	5796.6	5761.9	5754.9
7.5°	6751.9	6638.5	6386.4	6092.6	5817.4	5579.1	5303.9	5167.4	5007.8	4952.3	4933.8
10°	6638.5	6485.9	6132.0	5722.5	5308.5	4913.0	4614.6	4371.7	4152.0	4110.3	4089.5
12.5°	6606.1	6404.9	5928.4	5401.0	4850.5	4364.8	3923.0	3603.8	3391.0	3342.4	3270.7
15°	6587.6	6337.8	5738.7	5077.2	4378.7	3786.5	3321.6	2949.2	2754.9	2625.3	2627.7
17.5°	6571.4	6261.5	5525.9	4723.3	3971.6	3289.2	2775.7	2440.3	2262.2	2192.8	2185.9
20°	6548.3	6171.3	5280.8	4350.9	3506.6	2835.8	2370.9	2121.1	2000.8	1943.0	1940.7
22.5°	6539.1	6083.4	5040.2	3971.6	3094.9	2486.6	2102.6	1926.8	1850.5	1811.1	1811.1
25°	6562.2	6020.9	4788.1	3610.7	2729.4	2188.2	1917.5	1797.3	1753.3	1732.5	1725.6
27.5°	6633.9	5993.2	4538.3	3249.9	2394.0	1984.6	1792.6	1709.4	1677.0	1660.8	1663.1
30°	6770.4	5990.9	4293.1	2893.7	2144.2	1829.6	1693.2	1635.3	1609.9	1600.6	1598.3
32.5°	6990.1	6041.8	4052.5	2599.9	1933.7	1700.1	1600.6	1559.0	1547.4	1540.5	1538.2
35°	7362.5	6185.2	3814.3	2331.6	1771.8	1584.5	1512.8	1491.9	1475.7	1482.7	1485.0
37.5°	7864.5	6432.7	3587.6	2121.1	1649.2	1498.9	1438.7	1420.2	1411.0	1417.9	1424.9
40°	8537.6	6788.9	3397.9	1952.2	1561.3	1427.2	1374.0	1357.8	1348.5	1360.1	1362.4
42.5°	9280.1	7200.6	3240.6	1820.4	1489.6	1367.0	1316.1	1297.6	1290.7	1297.6	1299.9
45°	10043.4	7679.4	3159.7	1725.6	1429.5	1323.1	1269.9	1249.1	1232.9	1228.2	1235.2
47.5°	10795.1	8095.8	3157.3	1667.7	1380.9	1283.8	1225.9	1202.8	1182.0	1170.4	1168.1
50°	11408.1	8426.5	3212.9	1642.3	1339.3	1239.8	1182.0	1158.9	1131.1	1108.0	1112.6
52.5°	11870.7	8641.6	3238.3	1630.7	1316.1	1193.5	1135.7	1114.9	1082.5	1052.4	1052.4
55°	12169.1	8692.5	3175.9	1619.2	1297.6	1145.0	1082.5	1064.0	1031.6	1001.6	1001.6
57.5°	12270.9	8535.2	2951.5	1591.4	1279.1	1103.3	1029.3	1013.1	987.7	957.6	953.0
60°	12034.9	8003.2	2558.3	1508.1	1242.1	1059.4	971.5	964.6	955.3	929.9	927.5
62.5°	11125.9	6874.5	2130.3	1399.4	1179.7	1013.1	918.3	929.9	936.8	922.9	920.6
65°	9613.1	5581.5	1820.4	1249.1	1096.4	948.4	860.5	890.5	909.0	909.0	904.4
67.5°	7797.4	4286.1	1533.6	1119.5	992.3	860.5	795.7	818.8	832.7	828.1	839.6
70°	5542.1	2902.9	1249.1	971.5	860.5	761.0	712.4	712.4	703.2	698.5	698.5
72.5°	2687.8	1658.5	1013.1	811.9	733.2	650.0	610.7	594.5	576.0	573.6	562.1
73°	2246.0	1487.3	966.9	781.8	703.2	633.8	589.8	564.4	552.8	543.6	541.3
75°	1367.0	1128.8	807.3	659.2	599.1	545.9	506.6	483.4	471.9	464.9	462.6
77.5°	899.8	842.0	626.8	504.3	458.0	425.6	409.4	386.3	379.3	370.1	370.1
80°	670.8	643.0	448.7	356.2	328.5	300.7	296.1	291.4	272.9	261.4	256.8
82.5°	432.5	458.0	305.3	238.2	208.2	185.0	187.4	194.3	175.8	159.6	155.0
85°	307.6	330.8	185.0	108.7	87.9	76.3	85.6	76.3	78.6	62.5	50.9
87.5°	50.9	87.9	32.4	13.9	6.9	4.6	0.0	0.0	0.0	0.0	0.0
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)