

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: P457205

Luminaire Tested: **GALN-SA8C-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51588 lumens
Efficiency: N/A
Efficacy: 120.3 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

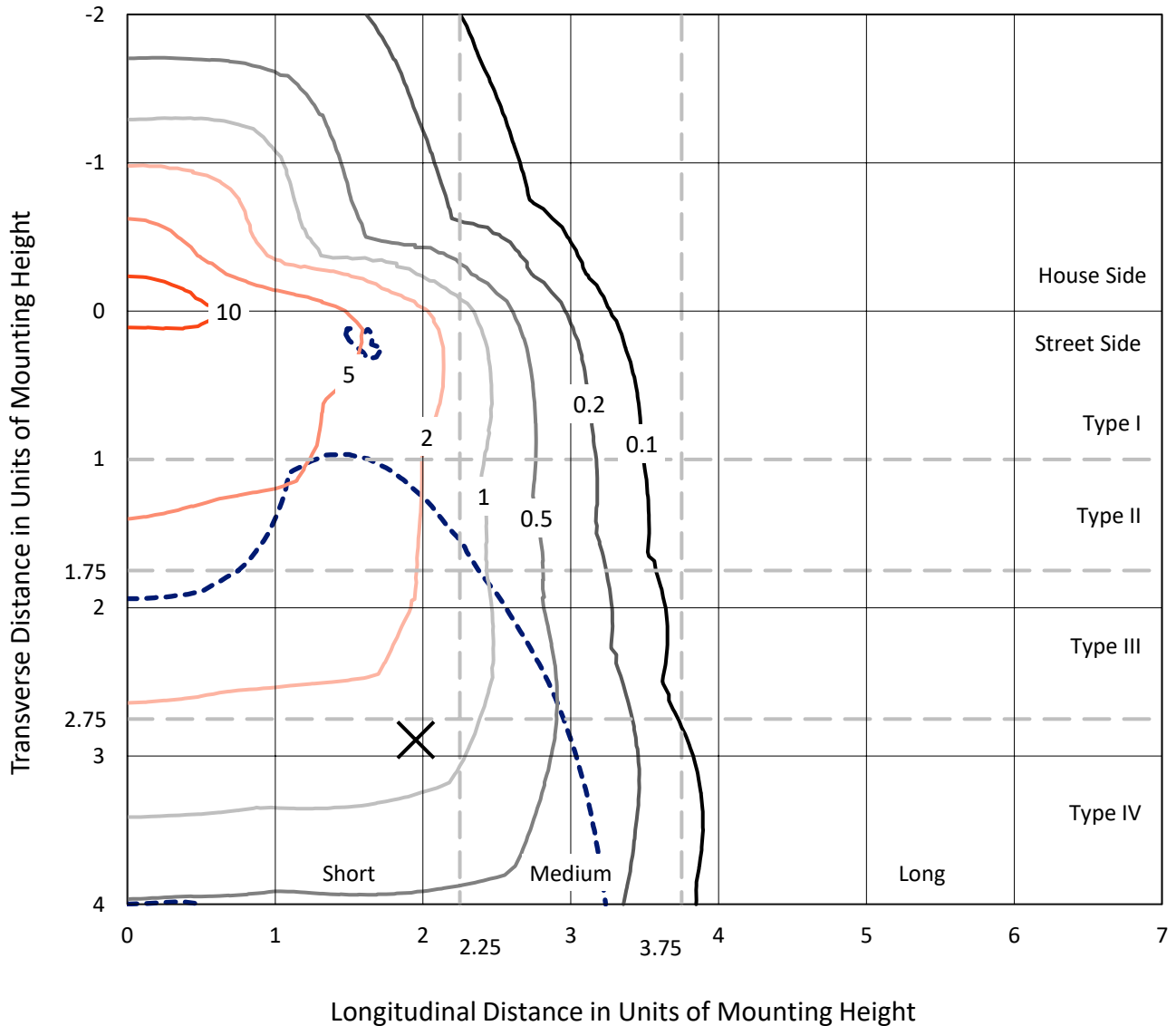
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

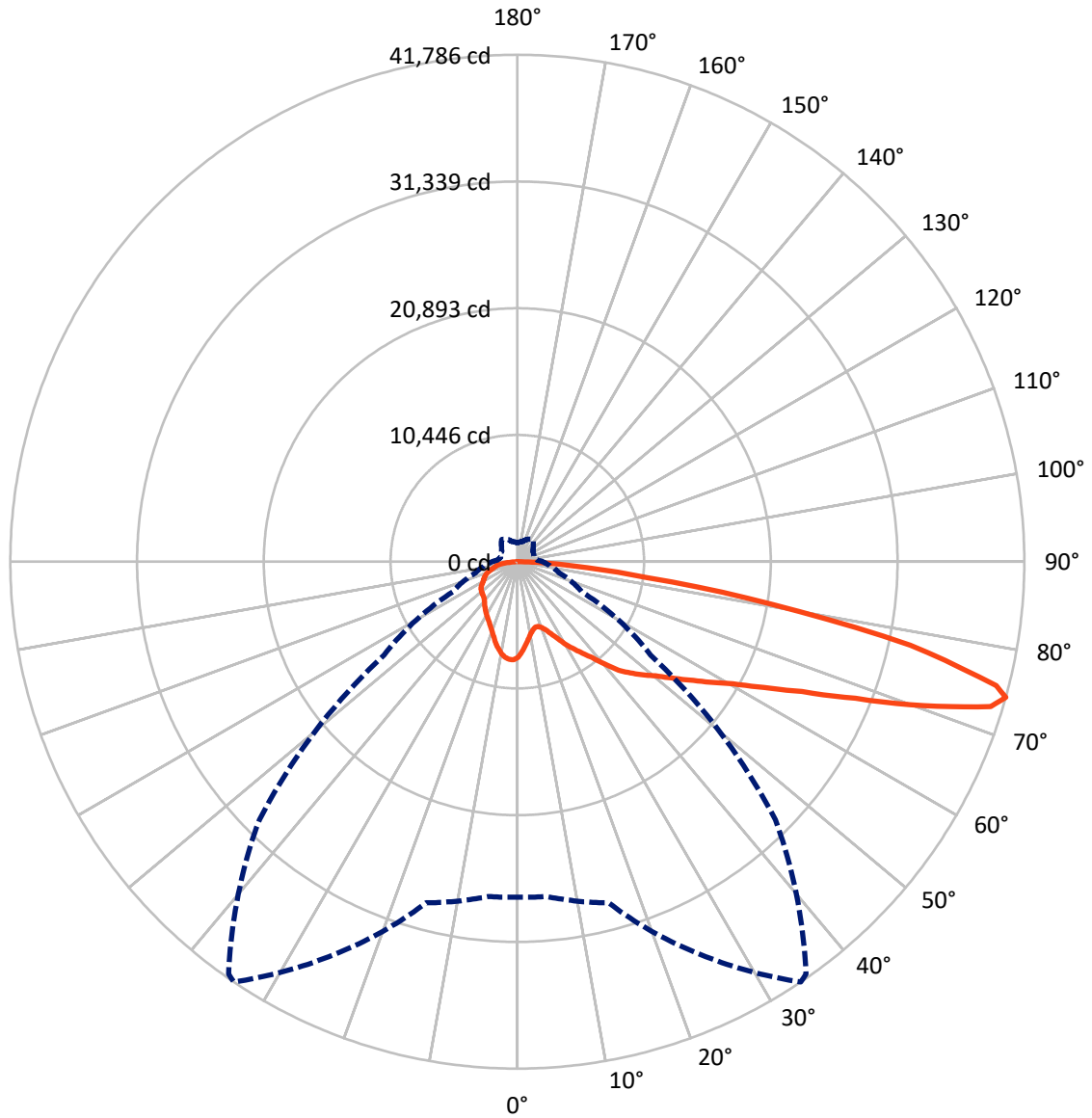
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10978.3	0.0	10978.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	40609.7	0.0	40609.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	51588.0	0.0	51588.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.3	1.4
10°-20°	1960.9	3.8
20°-30°	3233.1	6.3
30°-40°	4842.7	9.4
40°-50°	7040.0	13.6
50°-60°	9833.3	19.1
60°-70°	12310.7	23.9
70°-80°	10180.0	19.7
80°-90°	1470.9	2.9
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°	51588.0	100.0
0°-180°	51588.0	100.0

Coefficient of Utilization



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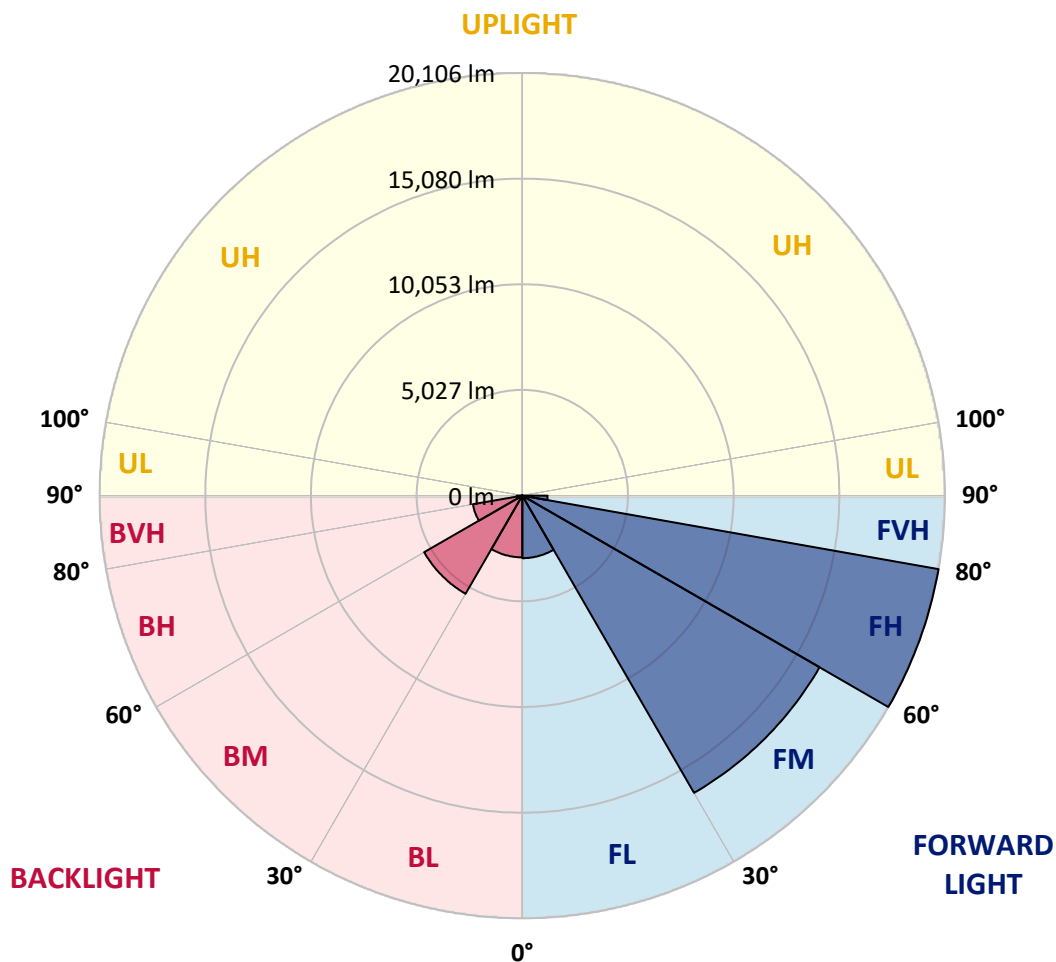
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2973.8	5.8			
FM	(30°-60°)	16324.6	31.6			
FH	(60°-80°)	20106.3	39.0			G5
FVH	(80°-90°)	1205.0	2.3			G5
BL	(0°-30°)	2936.5	5.7	B4/5000		
BM	(30°-60°)	5391.5	10.5	B4/8500		
BH	(60°-80°)	2384.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	265.9	0.5			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°	34°	35°	45°	55°	65°	75°	85°
0°	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5
2.5°	7279.2	7316.3	7336.3	7407.8	7424.9	7447.8	7507.8	7587.8	7690.7	7782.2	7862.2
5°	6673.3	6730.4	6764.7	6827.6	6950.5	6961.9	7122.0	7304.9	7513.5	7707.8	7867.9
7.5°	6098.8	6161.7	6190.3	6304.6	6467.5	6493.2	6727.6	7016.2	7364.9	7659.3	7905.0
10°	5667.3	5698.7	5761.6	5847.3	6041.7	6058.8	6364.6	6750.4	7202.0	7636.4	7967.9
12.5°	5432.9	5450.1	5464.4	5555.8	5747.3	5773.0	6093.1	6530.4	7073.4	7653.5	8070.8
15°	5467.2	5472.9	5410.1	5427.2	5581.5	5618.7	5935.9	6384.6	6993.4	7696.4	8225.1
17.5°	5755.9	5735.9	5581.5	5501.5	5610.1	5627.3	5904.5	6327.5	6956.2	7776.4	8385.2
20°	6210.3	6181.7	5915.9	5738.7	5801.6	5815.9	6007.4	6370.3	6993.4	7907.9	8633.8
22.5°	6776.2	6764.7	6361.8	6147.4	6144.6	6144.6	6244.6	6524.7	7104.8	8088.0	8893.9
25°	7567.8	7507.8	6981.9	6704.7	6627.5	6621.8	6610.4	6779.0	7247.7	8279.4	9202.5
27.5°	8379.5	8276.6	7807.9	7382.0	7216.3	7196.3	7122.0	7139.1	7430.6	8496.6	9554.1
30°	9108.2	9042.5	8602.4	8130.8	7933.6	7887.9	7682.1	7587.8	7736.4	8888.2	10114.2
32.5°	9665.5	9625.5	9282.6	8853.9	8562.4	8553.8	8253.7	8176.6	8213.7	9362.6	10754.4
35°	10117.1	10131.4	9957.0	9585.5	9251.1	9202.5	9002.5	8905.3	8796.7	10048.5	11560.3
37.5°	10734.4	10765.8	10754.4	10434.3	10025.6	10037.1	9991.3	9831.3	9542.6	10814.4	12454.9
40°	11414.6	11437.5	11434.6	11311.7	11097.4	11108.8	11091.6	10908.7	10477.2	11789.0	13449.4
42.5°	12354.9	12246.2	11963.3	12086.2	12212.0	12266.3	12383.4	12209.1	11617.5	12829.3	14384.0
45°	13406.6	13200.8	12560.6	12617.8	13083.6	13186.5	13832.4	13592.3	12855.0	14023.9	15484.3
47.5°	14069.6	13866.7	13326.5	13315.1	13932.4	14032.5	15175.6	15087.0	13981.0	15312.8	16827.5
50°	14661.2	14632.6	14023.9	14169.6	14772.7	14921.3	16638.9	16556.0	15104.2	16833.2	18290.8
52.5°	15538.6	15307.1	14821.2	15121.3	15918.7	16113.0	18090.7	17847.8	16135.9	18176.5	19711.2
55°	15933.0	15878.7	15850.1	16110.2	17204.8	17344.8	19502.5	18945.2	17016.1	19313.9	20791.5
57.5°	16987.6	16887.5	17170.5	17347.7	18719.5	18933.8	20977.2	20091.3	17787.8	20217.0	21317.3
60°	18353.7	18299.4	18559.4	18879.5	20411.4	20737.2	22657.7	21068.7	18408.0	20671.4	21028.7
62.5°	20394.2	20388.5	20339.9	21025.8	22809.2	23109.3	24586.8	22020.4	18505.1	20331.3	19536.8
65°	23320.7	23217.9	22794.9	23543.7	25792.9	26144.4	26595.9	22552.0	17919.2	18585.1	16450.3
67.5°	26381.6	26375.9	26032.9	27004.6	30076.9	30439.9	29108.1	22434.8	16293.1	15055.6	11683.2
70°	28919.4	28796.5	29233.8	31823.1	35549.8	35970.0	31305.8	21054.4	12977.9	9942.8	6941.9
72.5°	29528.2	29533.9	30442.7	35538.4	40805.6	40871.3	32097.5	17064.7	8685.3	5484.4	3472.4
74°	27653.4	27702.0	29110.9	35724.2	41785.9	41488.6	30074.0	13412.3	5873.1	3581.0	2503.6
75°	25241.3	24935.5	26973.2	34486.7	40768.4	40448.3	27704.8	10763.0	4481.2	2860.8	2192.0
77.5°	13495.2	13806.7	16950.4	25735.7	33120.6	32751.9	18785.2	5161.4	2420.7	1992.0	1577.6
80°	4804.2	5298.6	7447.8	13466.6	21234.5	21348.8	8965.3	2366.4	1703.3	1469.0	1114.6
82.5°	1960.5	2014.8	3198.0	5975.9	10783.0	10885.9	3661.0	1406.1	1217.5	1011.7	665.9
85°	765.9	788.8	1414.7	2686.5	4601.3	4901.4	1266.1	743.1	748.8	580.2	340.1
87.5°	257.2	291.5	580.2	894.5	1563.3	1531.9	368.7	220.1	268.6	251.5	105.7
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°	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5
2.5°	7902.2	7956.5	7993.6	8033.7	8070.8	8082.2	8073.7	8099.4	8102.2	8105.1	8108.0
5°	7947.9	8022.2	8093.7	8133.7	8150.8	8136.5	8088.0	8062.2	8039.4	8022.2	8027.9
7.5°	8010.8	8116.5	8182.3	8199.4	8153.7	8088.0	7967.9	7873.6	7813.6	7773.6	7770.7
10°	8108.0	8210.8	8265.1	8216.6	8090.8	7930.8	7742.1	7565.0	7430.6	7390.6	7387.8
12.5°	8230.9	8348.0	8345.2	8202.3	7982.2	7696.4	7390.6	7184.8	7001.9	6910.5	6947.6
15°	8390.9	8479.5	8396.6	8139.4	7790.7	7399.2	7021.9	6741.9	6536.1	6438.9	6444.6
17.5°	8576.7	8653.8	8433.8	8027.9	7522.1	7019.1	6581.8	6316.0	6153.1	6081.7	6076.0
20°	8808.2	8831.0	8433.8	7833.6	7176.3	6576.1	6158.8	5973.1	5881.6	5844.5	5855.9
22.5°	9056.8	9011.1	8388.0	7559.2	6721.9	6113.1	5833.0	5750.2	5704.4	5698.7	5704.4
25°	9336.9	9208.3	8293.7	7187.7	6247.4	5713.0	5550.1	5564.4	5573.0	5573.0	5593.0
27.5°	9679.8	9422.6	8136.5	6719.0	5693.0	5341.5	5295.8	5395.8	5441.5	5450.1	5464.4
30°	10131.4	9657.0	7876.5	6133.1	5221.4	5007.1	5087.1	5221.4	5272.9	5304.3	5298.6
32.5°	10668.7	9914.2	7524.9	5547.3	4841.3	4772.8	4869.9	5007.1	5064.3	5081.4	5058.5
35°	11300.3	10205.7	7062.0	4998.5	4509.8	4549.8	4664.1	4707.0	4758.5	4758.5	4769.9
37.5°	11980.5	10440.0	6496.1	4495.5	4252.6	4398.4	4481.2	4441.2	4418.4	4389.8	4404.1
40°	12672.1	10614.4	5761.6	3998.3	3995.4	4241.2	4264.0	4149.7	4058.3	4029.7	4015.4
42.5°	13275.1	10723.0	5098.6	3612.4	3752.5	4086.8	4104.0	3921.1	3775.3	3689.6	3661.0
45°	13986.7	10848.7	4449.8	3292.3	3526.7	3964.0	4006.8	3761.0	3546.7	3366.6	3320.9
47.5°	14961.3	11134.5	3938.2	3043.7	3363.8	3886.8	3946.8	3629.6	3346.6	3112.3	3075.1
50°	16061.6	11526.0	3541.0	2875.1	3238.0	3818.2	3892.5	3495.3	3160.9	2900.8	2872.2
52.5°	17070.4	11737.5	3198.0	2723.6	3115.1	3692.5	3821.1	3398.1	2978.0	2689.3	2663.6
55°	17622.0	11394.6	2860.8	2575.0	2946.5	3529.5	3721.0	3263.8	2800.8	2577.9	2540.7
57.5°	17696.3	10685.8	2555.0	2415.0	2769.3	3329.5	3535.3	3100.9	2686.5	2500.7	2469.3
60°	17121.9	9628.4	2317.8	2283.5	2589.3	3103.7	3326.6	2958.0	2569.3	2415.0	2383.5
62.5°	15692.9	8479.5	2152.0	2163.5	2406.4	2866.5	3172.3	2820.8	2457.8	2320.6	2292.1
65°	13235.1	6999.1	1992.0	2040.6	2243.5	2680.7	3032.3	2706.5	2346.4	2249.2	2223.5
67.5°	9194.0	5052.8	1860.5	1912.0	2089.2	2492.1	2869.4	2583.6	2220.6	2169.2	2129.2
70°	5090.0	3109.4	1706.2	1766.2	1929.1	2280.6	2686.5	2397.8	2037.7	2014.8	1957.7
72.5°	2675.0	1980.5	1531.9	1597.6	1711.9	2009.1	2406.4	2194.9	1857.7	1760.5	1686.2
74°	2089.2	1623.3	1414.7	1483.3	1560.4	1849.1	2240.6	2049.1	1729.1	1614.7	1557.6
75°	1820.5	1446.1	1314.6	1403.2	1471.8	1740.5	2112.0	1946.3	1657.6	1549.0	1497.6
77.5°	1286.1	1083.2	1074.6	1180.3	1217.5	1526.1	1903.4	1771.9	1477.6	1363.2	1314.6
80°	903.1	811.7	851.7	917.4	968.8	1348.9	1766.2	1531.9	1211.8	1077.4	1060.3
82.5°	588.7	531.6	608.7	668.8	685.9	994.6	1426.1	1163.2	883.1	717.3	665.9
85°	271.5	265.8	348.7	340.1	337.2	485.8	845.9	680.2	508.7	380.1	357.2
87.5°	68.6	65.7	85.7	71.4	85.7	74.3	77.2	20.0	2.9	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)