

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: P457437

Luminaire Tested: **GALN-SA8D-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457437
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-SA8D-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA 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: 56765 lumens
Efficiency: N/A
Efficacy: 115.1 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

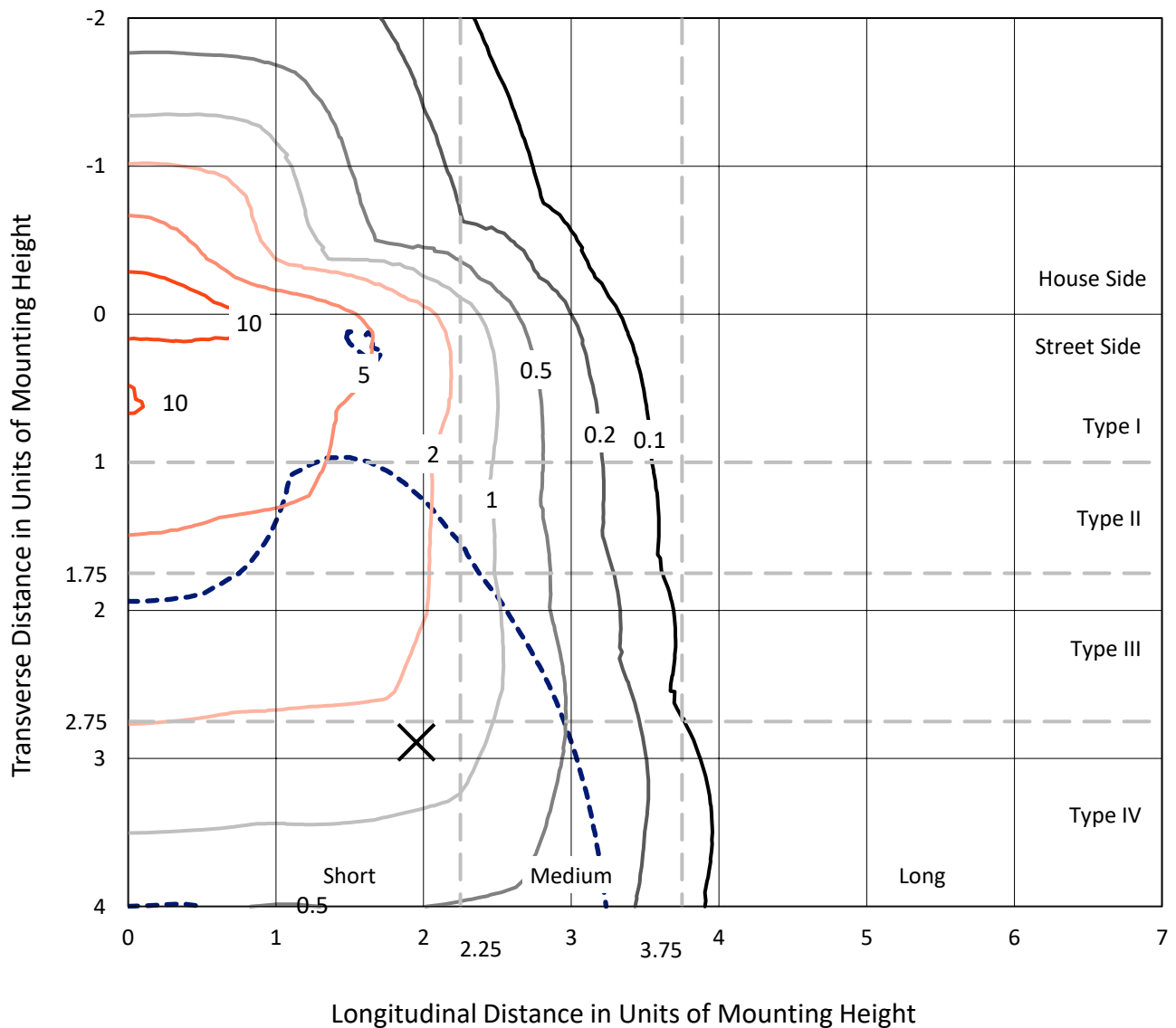
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

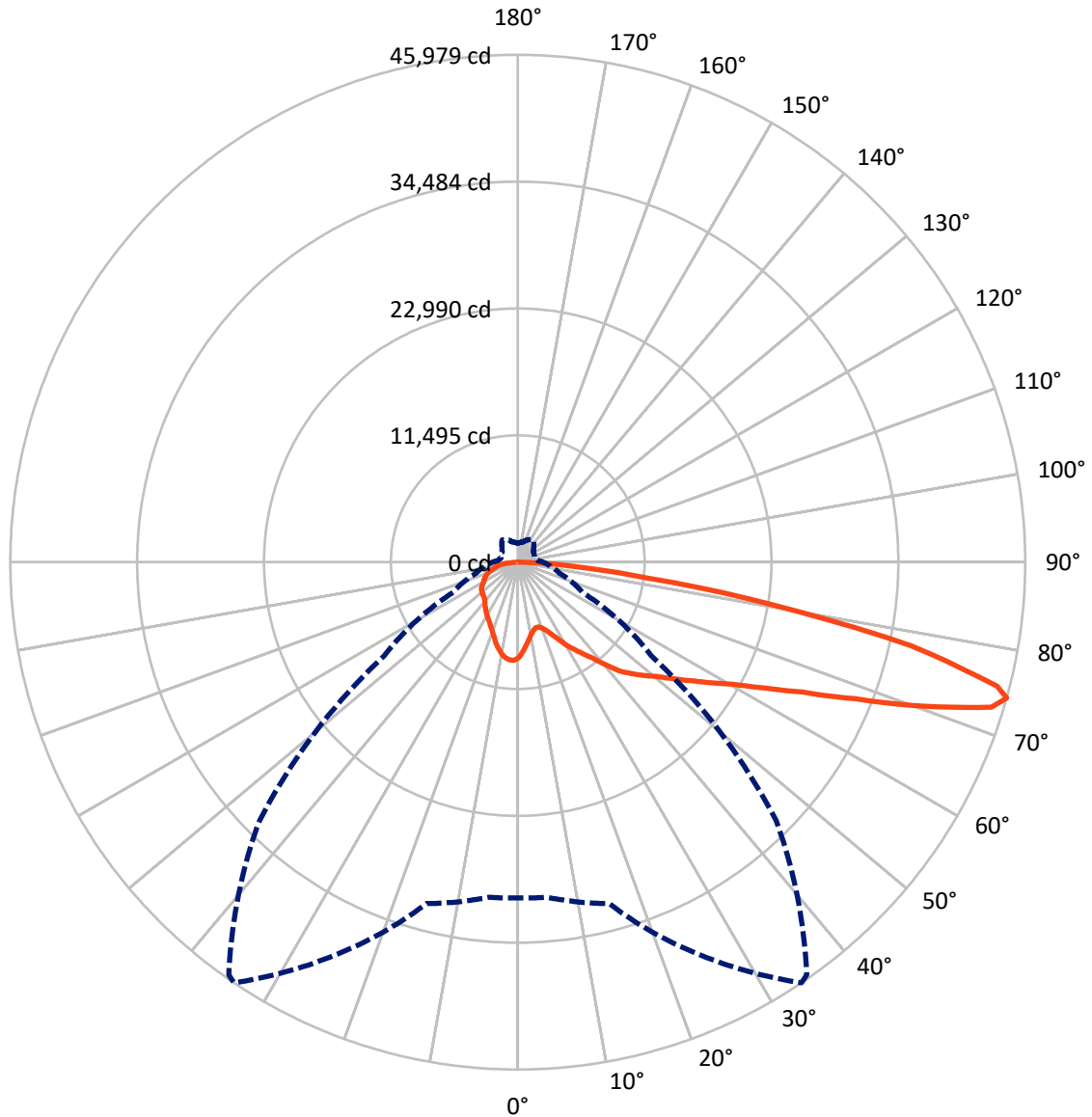
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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	12080.0	0.0	12080.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	44685.0	0.0	44685.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	56765.0	0.0	56765.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	788.2	1.4
10°-20°	2157.7	3.8
20°-30°	3557.5	6.3
30°-40°	5328.7	9.4
40°-50°	7746.5	13.6
50°-60°	10820.1	19.1
60°-70°	13546.1	23.9
70°-80°	11201.6	19.7
80°-90°	1618.5	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°	56765.0	100.0
0°-180°	56765.0	100.0

Coefficient of Utilization



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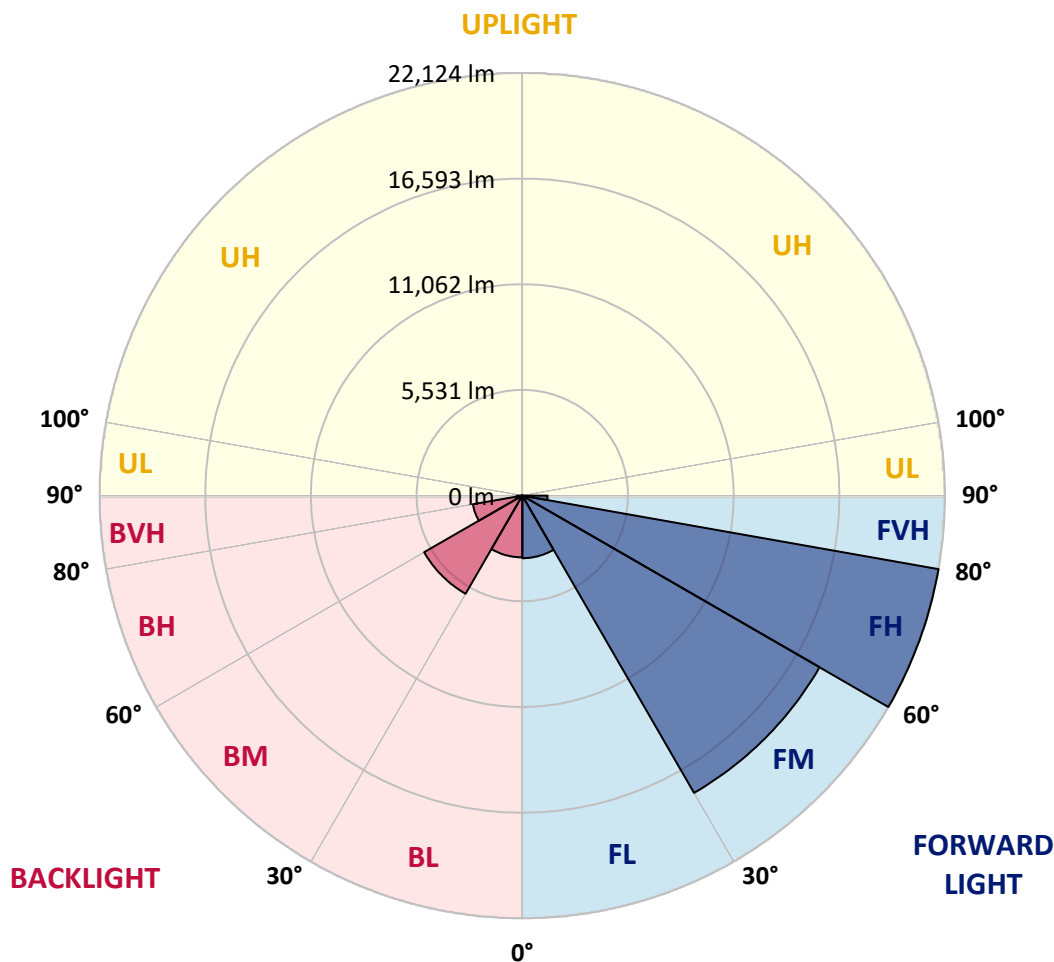
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3272.2	5.8			
FM	(30°-60°)	17962.8	31.6			
FH	(60°-80°)	22124.0	39.0			G5
FVH	(80°-90°)	1326.0	2.3			G5
BL	(0°-30°)	3231.2	5.7	B4/5000		
BM	(30°-60°)	5932.5	10.5	B4/8500		
BH	(60°-80°)	2623.7	4.6	B4/5000		G4/5000
BVH	(80°-90°)	292.6	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°	8666.9	8666.9	8666.9	8666.9	8666.9	8666.9	8666.9	8666.9	8666.9	8666.9	8666.9
2.5°	8009.6	8050.5	8072.5	8151.2	8170.0	8195.2	8261.2	8349.3	8462.5	8563.1	8651.2
5°	7343.0	7405.9	7443.6	7512.8	7648.0	7660.6	7836.7	8037.9	8267.5	8481.4	8657.5
7.5°	6710.9	6780.1	6811.5	6937.3	7116.5	7144.8	7402.7	7720.3	8104.0	8427.9	8698.3
10°	6236.0	6270.6	6339.8	6434.1	6648.0	6666.8	7003.3	7427.9	7924.7	8402.7	8767.5
12.5°	5978.1	5997.0	6012.7	6113.4	6324.1	6352.4	6704.6	7185.7	7783.2	8421.6	8880.7
15°	6015.9	6022.2	5953.0	5971.9	6141.7	6182.6	6531.6	7025.3	7695.2	8468.8	9050.6
17.5°	6333.5	6311.5	6141.7	6053.6	6173.1	6192.0	6497.0	6962.4	7654.3	8556.8	9226.7
20°	6833.5	6802.1	6509.6	6314.6	6383.8	6399.5	6610.2	7009.6	7695.2	8701.5	9500.2
22.5°	7456.2	7443.6	7000.2	6764.3	6761.2	6761.2	6871.2	7179.4	7817.8	8899.6	9786.4
25°	8327.3	8261.2	7682.6	7377.6	7292.6	7286.4	7273.8	7459.3	7975.1	9110.3	10126.1
27.5°	9220.4	9107.2	8591.4	8122.9	7940.5	7918.4	7836.7	7855.6	8176.3	9349.3	10512.9
30°	10022.3	9949.9	9465.7	8946.8	8729.8	8679.5	8453.1	8349.3	8512.8	9780.1	11129.2
32.5°	10635.5	10591.5	10214.1	9742.4	9421.6	9412.2	9082.0	8997.1	9038.0	10302.2	11833.6
35°	11132.4	11148.1	10956.3	10547.4	10179.5	10126.1	9905.9	9799.0	9679.5	11056.9	12720.5
37.5°	11811.6	11846.2	11833.6	11481.4	11031.7	11044.3	10994.0	10817.9	10500.3	11899.7	13704.8
40°	12560.1	12585.2	12582.1	12446.9	12211.0	12223.6	12204.7	12003.5	11528.6	12972.0	14799.1
42.5°	13594.7	13475.2	13163.9	13299.1	13437.5	13497.2	13626.1	13434.3	12783.4	14116.7	15827.5
45°	14752.0	14525.5	13821.1	13884.0	14396.6	14509.8	15220.5	14956.4	14145.0	15431.2	17038.2
47.5°	15481.5	15258.3	14663.9	14651.3	15330.6	15440.7	16698.5	16601.1	15384.0	16849.5	18516.2
50°	16132.5	16101.0	15431.2	15591.6	16255.1	16418.7	18308.7	18217.5	16619.9	18522.5	20126.3
52.5°	17097.9	16843.2	16308.6	16638.8	17516.2	17730.0	19906.2	19638.9	17755.2	20000.5	21689.2
55°	17531.9	17472.2	17440.7	17726.9	18931.3	19085.4	21459.7	20846.5	18723.8	21252.1	22878.0
57.5°	18692.3	18582.2	18893.6	19088.5	20598.0	20833.9	23082.4	22107.5	19572.8	22245.9	23456.6
60°	20195.5	20135.7	20421.9	20774.1	22459.7	22818.2	24931.5	23183.0	20255.2	22745.9	23139.0
62.5°	22440.8	22434.5	22381.1	23135.8	25098.1	25428.3	27054.2	24230.2	20362.2	22371.7	21497.4
65°	25661.0	25547.8	25082.4	25906.3	28381.2	28768.0	29264.9	24815.1	19717.5	20450.2	18101.1
67.5°	29029.1	29022.8	28645.4	29714.6	33095.2	33494.6	32029.1	24686.2	17928.1	16566.5	12855.7
70°	31821.6	31686.4	32167.5	35016.6	39117.4	39579.6	34447.4	23167.3	14280.2	10940.5	7638.6
72.5°	32491.4	32497.7	33497.7	39104.8	44900.5	44972.9	35318.5	18777.2	9556.9	6034.7	3820.9
74°	30428.5	30481.9	32032.3	39309.2	45979.2	45652.1	33092.1	14758.2	6462.4	3940.4	2754.8
75°	27774.3	27437.8	29680.0	37947.5	44859.7	44507.5	30485.1	11843.1	4930.9	3147.9	2412.0
77.5°	14849.4	15192.2	18651.4	28318.3	36444.3	36038.7	20670.4	5679.4	2663.6	2191.9	1735.9
80°	5286.3	5830.3	8195.2	14818.0	23365.4	23491.2	9865.0	2603.8	1874.3	1616.4	1226.4
82.5°	2157.3	2217.0	3519.0	6575.6	11865.1	11978.3	4028.4	1547.2	1339.7	1113.2	732.7
85°	842.8	867.9	1556.6	2956.1	5063.0	5393.2	1393.1	817.6	823.9	638.4	374.2
87.5°	283.0	320.8	638.4	984.3	1720.2	1685.6	405.7	242.1	295.6	276.7	116.4
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°	8666.9	8666.9	8666.9	8666.9	8666.9	8666.9	8666.9	8666.9	8666.9	8666.9	8666.9
2.5°	8695.2	8754.9	8795.8	8839.9	8880.7	8893.3	8883.9	8912.2	8915.3	8918.5	8921.6
5°	8745.5	8827.3	8905.9	8949.9	8968.8	8953.1	8899.6	8871.3	8846.1	8827.3	8833.6
7.5°	8814.7	8931.1	9003.4	9022.2	8971.9	8899.6	8767.5	8663.7	8597.7	8553.7	8550.5
10°	8921.6	9034.8	9094.6	9041.1	8902.7	8726.6	8519.1	8324.1	8176.3	8132.3	8129.1
12.5°	9056.8	9185.8	9182.6	9025.4	8783.2	8468.8	8132.3	7905.9	7704.6	7604.0	7644.9
15°	9232.9	9330.4	9239.2	8956.2	8572.6	8141.7	7726.6	7418.4	7192.0	7085.1	7091.4
17.5°	9437.4	9522.3	9280.1	8833.6	8276.9	7723.5	7242.3	6949.9	6770.6	6692.0	6685.7
20°	9692.1	9717.2	9280.1	8619.7	7896.4	7236.0	6776.9	6572.5	6471.9	6431.0	6443.6
22.5°	9965.7	9915.4	9229.8	8317.8	7396.4	6726.6	6418.4	6327.2	6276.9	6270.6	6276.9
25°	10273.9	10132.3	9126.0	7909.0	6874.4	6286.3	6107.1	6122.8	6132.2	6132.2	6154.2
27.5°	10651.2	10368.2	8953.1	7393.3	6264.3	5877.5	5827.2	5937.3	5987.6	5997.0	6012.7
30°	11148.1	10626.1	8666.9	6748.6	5745.4	5509.6	5597.6	5745.4	5802.0	5836.6	5830.3
32.5°	11739.3	10909.1	8280.1	6103.9	5327.2	5251.7	5358.6	5509.6	5572.5	5591.3	5566.2
35°	12434.3	11229.9	7770.6	5500.1	4962.4	5006.4	5132.2	5179.4	5236.0	5236.0	5248.6
37.5°	13182.7	11487.7	7148.0	4946.7	4679.4	4839.7	4930.9	4886.9	4861.8	4830.3	4846.0
40°	13943.8	11679.6	6339.8	4399.5	4396.3	4666.8	4691.9	4566.2	4465.5	4434.1	4418.4
42.5°	14607.3	11799.1	5610.2	3974.9	4129.0	4497.0	4515.8	4314.6	4154.2	4059.9	4028.4
45°	15390.3	11937.4	4896.4	3622.7	3880.6	4361.7	4408.9	4138.5	3902.6	3704.5	3654.2
47.5°	16462.7	12251.9	4333.4	3349.1	3701.4	4276.8	4342.9	3993.8	3682.5	3424.6	3383.7
50°	17673.4	12682.7	3896.3	3163.6	3563.0	4201.4	4283.1	3846.0	3478.1	3191.9	3160.5
52.5°	18783.5	12915.4	3519.0	2996.9	3427.8	4063.0	4204.5	3739.1	3276.8	2959.2	2930.9
55°	19390.4	12538.1	3147.9	2833.4	3242.2	3883.7	4094.4	3591.3	3081.8	2836.6	2795.7
57.5°	19472.2	11758.2	2811.4	2657.3	3047.2	3663.6	3890.0	3412.0	2956.1	2751.6	2717.1
60°	18840.1	10594.6	2550.4	2512.6	2849.1	3415.2	3660.5	3254.8	2827.1	2657.3	2622.7
62.5°	17267.7	9330.4	2368.0	2380.6	2647.9	3154.2	3490.7	3103.9	2704.5	2553.5	2522.1
65°	14563.3	7701.5	2191.9	2245.3	2468.6	2949.8	3336.6	2978.1	2581.8	2474.9	2446.6
67.5°	10116.6	5559.9	2047.2	2103.8	2298.8	2742.2	3157.3	2842.8	2443.5	2386.9	2342.8
70°	5600.8	3421.5	1877.4	1943.4	2122.7	2509.5	2956.1	2638.4	2242.2	2217.0	2154.1
72.5°	2943.5	2179.3	1685.6	1757.9	1883.7	2210.7	2647.9	2415.2	2044.1	1937.2	1855.4
74°	2298.8	1786.2	1556.6	1632.1	1717.0	2034.6	2465.5	2254.8	1902.6	1776.8	1713.9
75°	2003.2	1591.2	1446.6	1544.1	1619.5	1915.1	2324.0	2141.6	1823.9	1704.4	1647.8
77.5°	1415.1	1191.9	1182.4	1298.8	1339.7	1679.3	2094.4	1949.7	1625.8	1500.0	1446.6
80°	993.7	893.1	937.1	1009.5	1066.1	1484.3	1943.4	1685.6	1333.4	1185.6	1166.7
82.5°	647.8	584.9	669.8	735.9	754.7	1094.4	1569.2	1279.9	971.7	789.3	732.7
85°	298.7	292.5	383.7	374.2	371.1	534.6	930.8	748.4	559.8	418.2	393.1
87.5°	75.5	72.3	94.3	78.6	94.3	81.8	84.9	22.0	3.1	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)