

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: P454421

Luminaire Tested: **GALN-SA5C-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454421
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-SA5C-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 31993 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

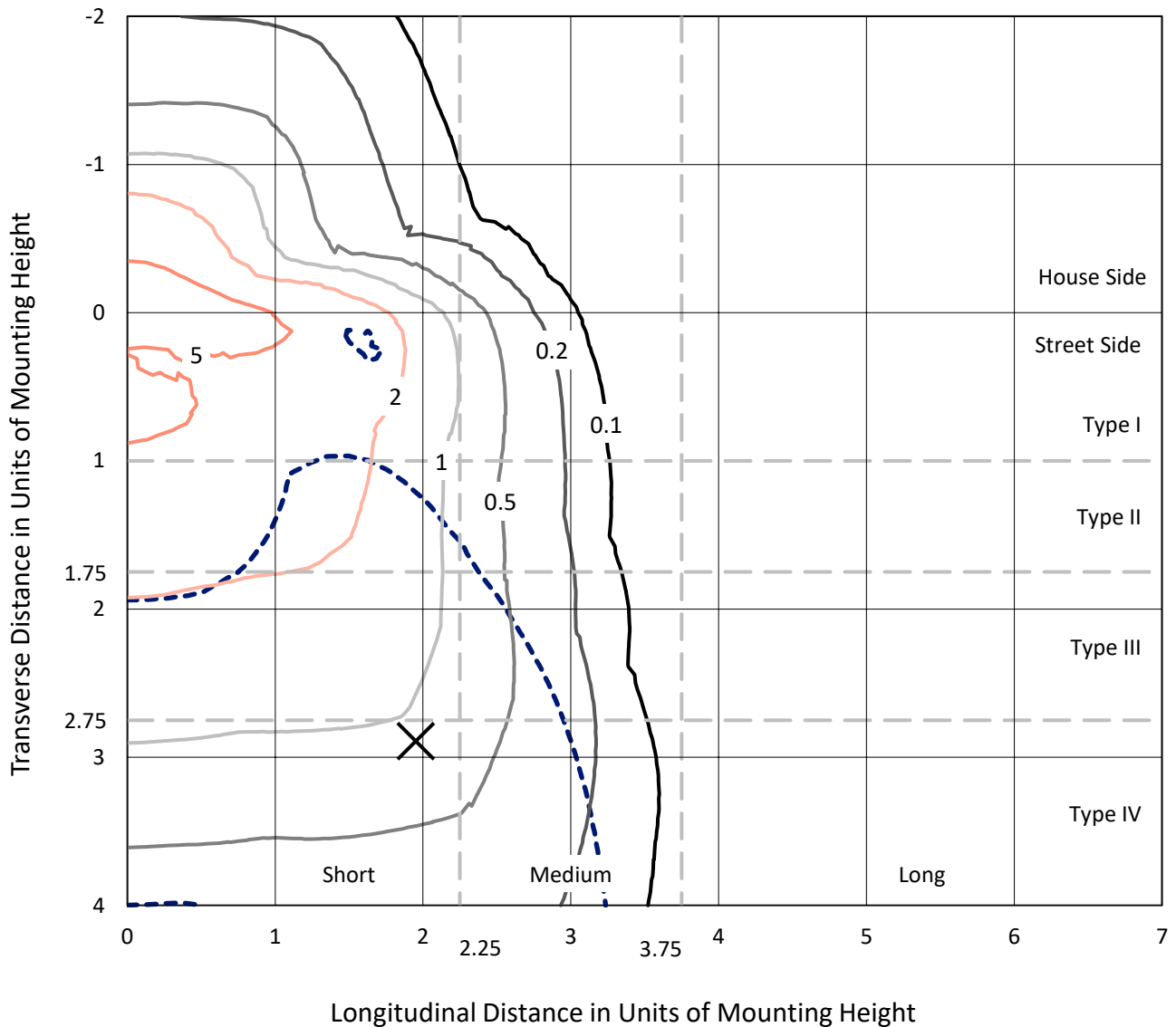
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

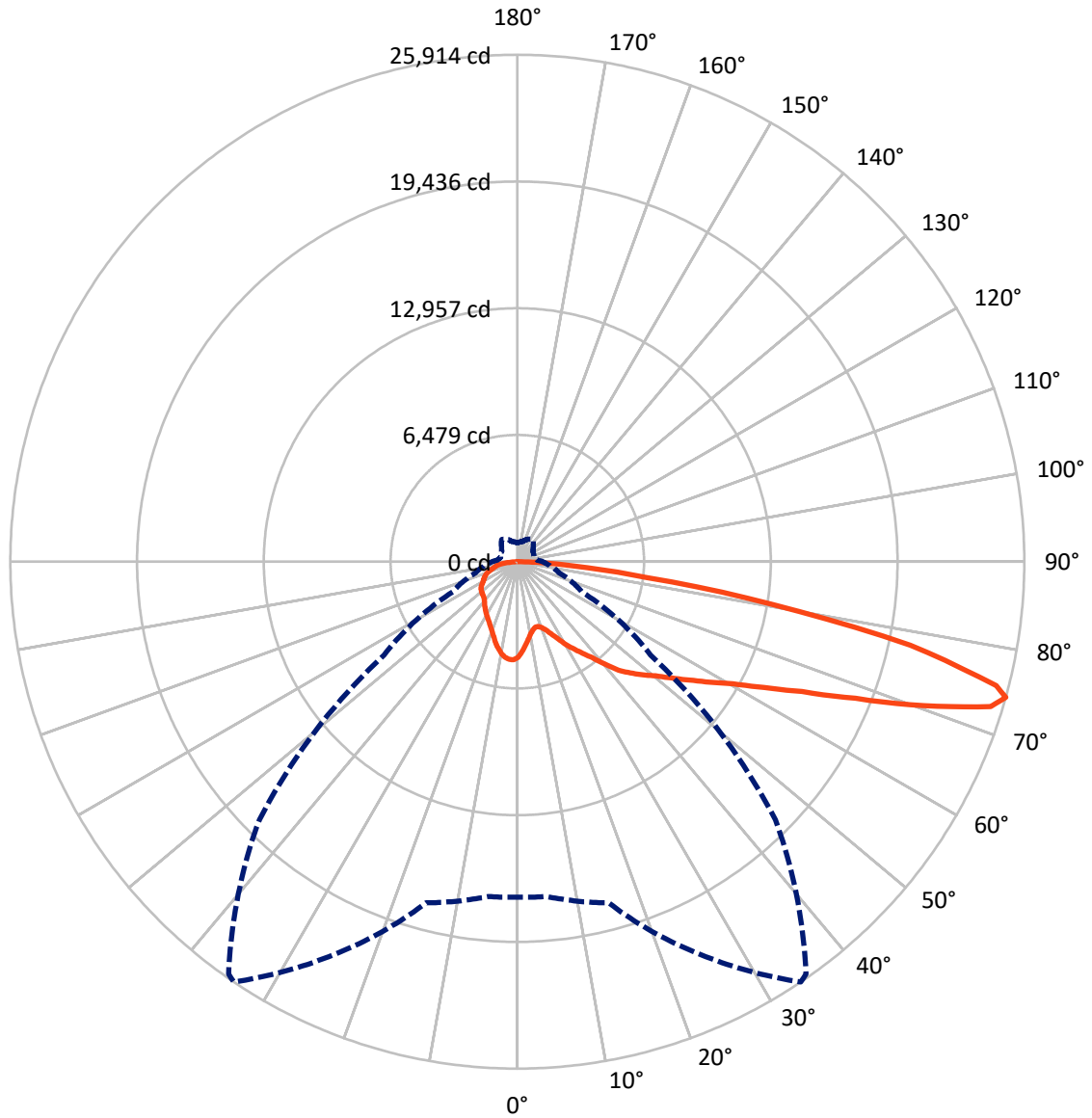
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	6808.3	0.0	6808.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	25184.7	0.0	25184.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	31993.0	0.0	31993.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.2	1.4
10°-20°	1216.1	3.8
20°-30°	2005.0	6.3
30°-40°	3003.3	9.4
40°-50°	4366.0	13.6
50°-60°	6098.2	19.1
60°-70°	7634.7	23.9
70°-80°	6313.3	19.7
80°-90°	912.2	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°	31993.0	100.0
0°-180°	31993.0	100.0

Coefficient of Utilization



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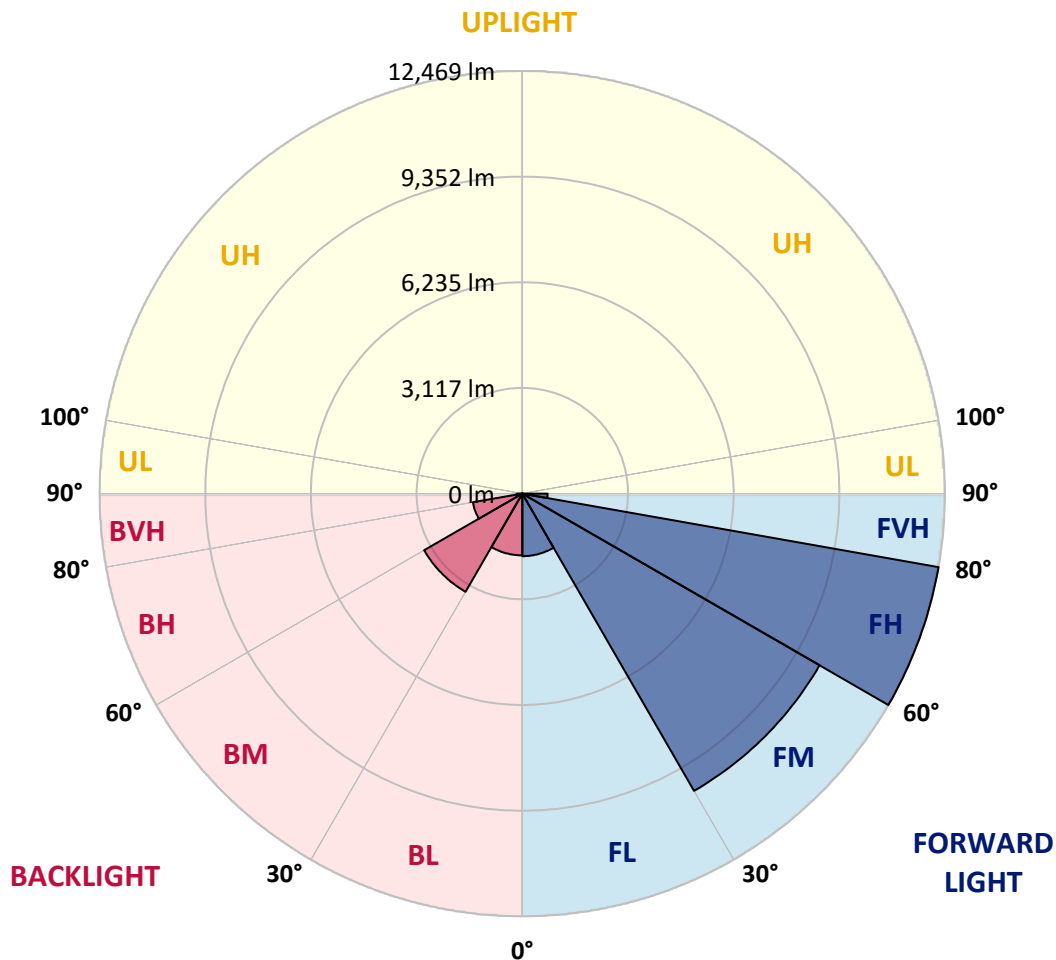
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1844.3	5.8			
FM	(30°-60°)	10123.9	31.6			
FH	(60°-80°)	12469.2	39.0			G5
FVH	(80°-90°)	747.3	2.3			G4/750
BL	(0°-30°)	1821.1	5.7	B3/2500		
BM	(30°-60°)	3343.6	10.5	B3/5000		
BH	(60°-80°)	1478.7	4.6	B3/2500		G3/2500
BVH	(80°-90°)	164.9	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4884.7	4884.7	4884.7	4884.7	4884.7	4884.7	4884.7	4884.7	4884.7	4884.7	4884.7
2.5°	4514.3	4537.3	4549.7	4594.0	4604.7	4618.8	4656.1	4705.7	4769.5	4826.2	4875.8
5°	4138.5	4174.0	4195.2	4234.2	4310.4	4317.5	4416.8	4530.2	4659.6	4780.1	4879.4
7.5°	3782.3	3821.3	3839.0	3909.9	4010.9	4026.9	4172.2	4351.2	4567.4	4750.0	4902.4
10°	3514.6	3534.1	3573.1	3626.3	3746.8	3757.5	3947.1	4186.4	4466.4	4735.8	4941.4
12.5°	3369.3	3379.9	3388.8	3445.5	3564.3	3580.2	3778.7	4049.9	4386.7	4746.5	5005.2
15°	3390.6	3394.1	3355.1	3365.8	3461.5	3484.5	3681.2	3959.5	4337.0	4773.0	5100.9
17.5°	3569.6	3557.2	3461.5	3411.8	3479.2	3489.8	3661.8	3924.1	4314.0	4822.7	5200.2
20°	3851.4	3833.7	3668.8	3559.0	3597.9	3606.8	3725.6	3950.7	4337.0	4904.2	5354.4
22.5°	4202.3	4195.2	3945.3	3812.4	3810.6	3810.6	3872.7	4046.4	4406.2	5015.9	5515.7
25°	4693.3	4656.1	4329.9	4158.0	4110.2	4106.6	4099.5	4204.1	4494.8	5134.6	5707.1
27.5°	5196.6	5132.8	4842.2	4578.1	4475.3	4462.9	4416.8	4427.4	4608.2	5269.3	5925.1
30°	5648.6	5607.8	5334.9	5042.4	4920.1	4891.8	4764.2	4705.7	4797.9	5512.1	6272.5
32.5°	5994.2	5969.4	5756.7	5490.9	5310.1	5304.8	5118.7	5070.8	5093.8	5806.3	6669.5
35°	6274.2	6283.1	6175.0	5944.6	5737.2	5707.1	5583.0	5522.8	5455.4	6231.7	7169.3
37.5°	6657.1	6676.6	6669.5	6471.0	6217.5	6224.6	6196.3	6097.0	5918.0	6706.7	7724.1
40°	7078.9	7093.1	7091.3	7015.1	6882.2	6889.3	6878.6	6765.2	6497.6	7311.1	8340.9
42.5°	7662.0	7594.7	7419.2	7495.4	7573.4	7607.1	7679.8	7571.6	7204.8	7956.2	8920.4
45°	8314.3	8186.7	7789.6	7825.1	8114.0	8177.8	8578.4	8429.5	7972.2	8697.1	9602.8
47.5°	8725.5	8599.6	8264.6	8257.6	8640.4	8702.4	9411.4	9356.4	8670.5	9496.4	10435.8
50°	9092.3	9074.6	8697.1	8787.5	9161.5	9253.6	10318.8	10267.4	9367.1	10439.4	11343.3
52.5°	9636.5	9492.9	9191.6	9377.7	9872.2	9992.7	11219.2	11068.6	10006.9	11272.4	12224.2
55°	9881.1	9847.4	9829.7	9990.9	10669.8	10756.6	12094.8	11749.2	10552.8	11977.8	12894.1
57.5°	10535.1	10473.0	10648.5	10758.4	11609.1	11742.1	13009.3	12459.9	11031.3	12537.9	13220.2
60°	11382.3	11348.6	11509.9	11708.4	12658.4	12860.4	14051.5	13066.0	11415.9	12819.7	13041.2
62.5°	12647.8	12644.2	12614.1	13039.5	14145.4	14331.5	15247.8	13656.2	11476.2	12608.8	12116.0
65°	14462.7	14398.9	14136.6	14600.9	15995.8	16213.8	16493.8	13985.9	11112.9	11525.8	10201.9
67.5°	16360.9	16357.4	16144.7	16747.3	18652.6	18877.7	18051.8	13913.2	10104.4	9336.9	7245.5
70°	17934.8	17858.6	18129.7	19735.5	22046.7	22307.3	19414.7	13057.2	8048.4	6166.1	4305.1
72.5°	18312.3	18315.8	18879.5	22039.6	25306.1	25346.9	19905.7	10582.9	5386.3	3401.2	2153.5
74°	17149.6	17179.7	18053.5	22154.8	25914.1	25729.7	18650.8	8317.8	3642.3	2220.8	1552.6
75°	15653.7	15464.1	16727.8	21387.4	25283.1	25084.6	17181.5	6674.8	2779.1	1774.2	1359.4
77.5°	8369.2	8562.4	10512.0	15960.3	20540.2	20311.6	11649.9	3200.9	1501.2	1235.4	978.4
80°	2979.4	3286.0	4618.8	8351.5	13168.8	13239.7	5560.0	1467.5	1056.3	911.0	691.2
82.5°	1215.9	1249.5	1983.3	3706.1	6687.2	6751.0	2270.4	872.0	755.0	627.4	413.0
85°	475.0	489.2	877.3	1666.0	2853.5	3039.6	785.2	460.8	464.4	359.8	210.9
87.5°	159.5	180.8	359.8	554.8	969.5	950.0	228.6	136.5	166.6	156.0	65.6
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°	4884.7	4884.7	4884.7	4884.7	4884.7	4884.7	4884.7	4884.7	4884.7	4884.7	4884.7
2.5°	4900.6	4934.3	4957.4	4982.2	5005.2	5012.3	5007.0	5022.9	5024.7	5026.5	5028.3
5°	4929.0	4975.1	5019.4	5044.2	5054.8	5046.0	5015.9	4999.9	4985.7	4975.1	4978.6
7.5°	4968.0	5033.6	5074.3	5085.0	5056.6	5015.9	4941.4	4882.9	4845.7	4820.9	4819.1
10°	5028.3	5092.1	5125.7	5095.6	5017.6	4918.4	4801.4	4691.5	4608.2	4583.4	4581.6
12.5°	5104.5	5177.1	5175.4	5086.8	4950.3	4773.0	4583.4	4455.8	4342.3	4285.6	4308.7
15°	5203.7	5258.7	5207.3	5047.8	4831.5	4588.7	4354.8	4181.1	4053.4	3993.2	3996.7
17.5°	5318.9	5366.8	5230.3	4978.6	4664.9	4353.0	4081.8	3917.0	3815.9	3771.6	3768.1
20°	5462.5	5476.7	5230.3	4858.1	4450.5	4078.3	3819.5	3704.3	3647.6	3624.5	3631.6
22.5°	5616.7	5588.3	5202.0	4688.0	4168.7	3791.1	3617.4	3566.0	3537.7	3534.1	3537.7
25°	5790.4	5710.6	5143.5	4457.6	3874.4	3543.0	3442.0	3450.8	3456.2	3456.2	3468.6
27.5°	6003.1	5843.6	5046.0	4166.9	3530.6	3312.6	3284.2	3346.3	3374.6	3379.9	3388.8
30°	6283.1	5988.9	4884.7	3803.5	3238.2	3105.2	3154.8	3238.2	3270.1	3289.6	3286.0
32.5°	6616.3	6148.4	4666.7	3440.2	3002.4	2959.9	3020.1	3105.2	3140.7	3151.3	3137.1
35°	7008.0	6329.2	4379.6	3099.9	2796.8	2821.6	2892.5	2919.1	2951.0	2951.0	2958.1
37.5°	7429.8	6474.5	4028.6	2788.0	2637.3	2727.7	2779.1	2754.3	2740.1	2722.4	2731.2
40°	7858.8	6582.6	3573.1	2479.6	2477.8	2630.2	2644.4	2573.5	2516.8	2499.1	2490.2
42.5°	8232.7	6650.0	3161.9	2240.3	2327.1	2534.5	2545.1	2431.7	2341.3	2288.2	2270.4
45°	8674.1	6728.0	2759.6	2041.8	2187.1	2458.3	2484.9	2332.5	2199.5	2087.9	2059.5
47.5°	9278.4	6905.2	2442.3	1887.6	2086.1	2410.4	2447.7	2250.9	2075.5	1930.1	1907.1
50°	9960.8	7148.0	2196.0	1783.0	2008.1	2367.9	2414.0	2167.6	1960.3	1799.0	1781.2
52.5°	10586.5	7279.2	1983.3	1689.1	1931.9	2289.9	2369.7	2107.4	1846.8	1667.8	1651.9
55°	10928.5	7066.5	1774.2	1596.9	1827.3	2188.9	2307.6	2024.1	1736.9	1598.7	1575.7
57.5°	10974.6	6627.0	1584.5	1497.7	1717.4	2064.8	2192.4	1923.0	1666.0	1550.8	1531.3
60°	10618.4	5971.2	1437.4	1416.1	1605.8	1924.8	2063.1	1834.4	1593.4	1497.7	1478.2
62.5°	9732.2	5258.7	1334.6	1341.7	1492.3	1777.7	1967.3	1749.3	1524.3	1439.2	1421.5
65°	8207.9	4340.6	1235.4	1265.5	1391.3	1662.5	1880.5	1678.5	1455.1	1394.9	1378.9
67.5°	5701.8	3133.6	1153.8	1185.7	1295.6	1545.5	1779.5	1602.2	1377.1	1345.2	1320.4
70°	3156.6	1928.4	1058.1	1095.3	1196.4	1414.4	1666.0	1487.0	1263.7	1249.5	1214.1
72.5°	1659.0	1228.3	950.0	990.8	1061.7	1246.0	1492.3	1361.2	1152.1	1091.8	1045.7
74°	1295.6	1006.7	877.3	919.9	967.7	1146.7	1389.6	1270.8	1072.3	1001.4	966.0
75°	1129.0	896.8	815.3	870.2	912.8	1079.4	1309.8	1207.0	1028.0	960.6	928.7
77.5°	797.6	671.7	666.4	732.0	755.0	946.5	1180.4	1098.9	916.3	845.4	815.3
80°	560.1	503.4	528.2	568.9	600.8	836.6	1095.3	950.0	751.5	668.2	657.6
82.5°	365.1	329.7	377.5	414.7	425.4	616.8	884.4	721.4	547.7	444.9	413.0
85°	168.4	164.8	216.2	210.9	209.1	301.3	524.6	421.8	315.5	235.7	221.5
87.5°	42.5	40.8	53.2	44.3	53.2	46.1	47.9	12.4	1.8	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)