

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: P453505

Luminaire Tested: **GALN-SA4C-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27566 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

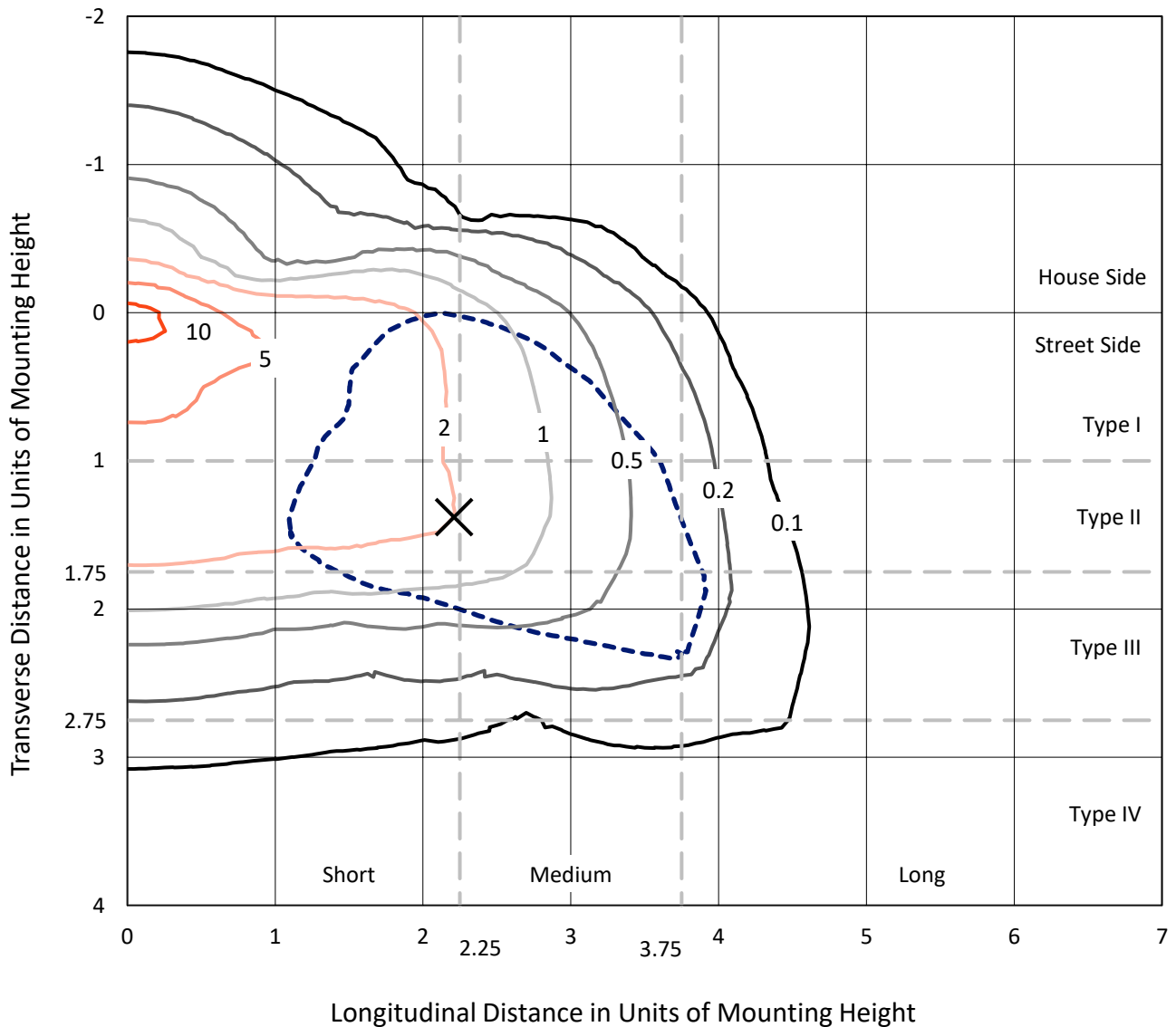
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

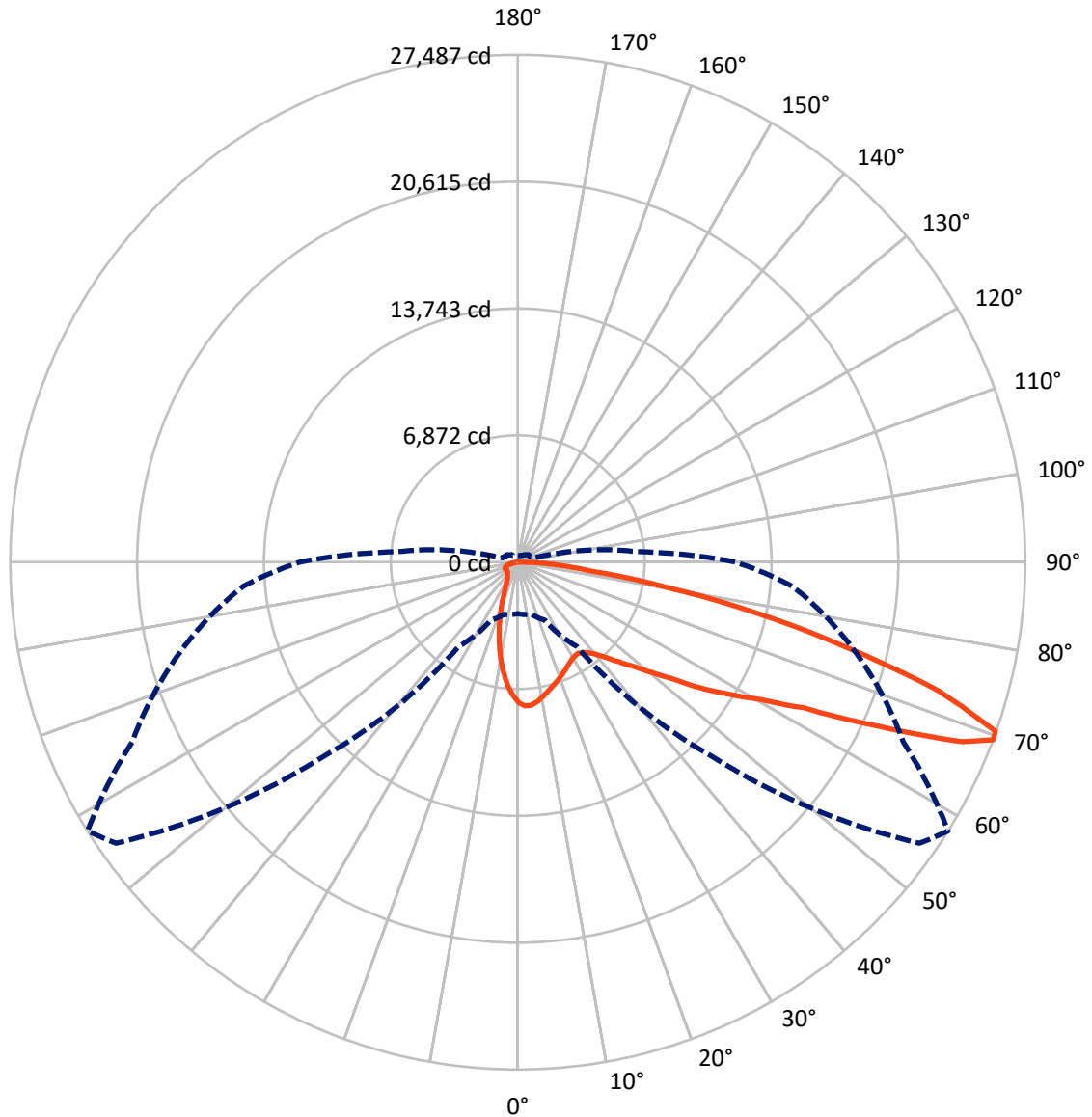
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4039.8	0.0	4039.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	23526.2	0.0	23526.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	27566.0	0.0	27566.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.9	2.3
10°-20°	1420.5	5.2
20°-30°	1835.3	6.7
30°-40°	2383.8	8.6
40°-50°	3465.6	12.6
50°-60°	5530.0	20.1
60°-70°	7387.4	26.8
70°-80°	4258.5	15.4
80°-90°	637.8	2.3
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°	27566.0	100.0
0°-180°	27566.0	100.0

Coefficient of Utilization



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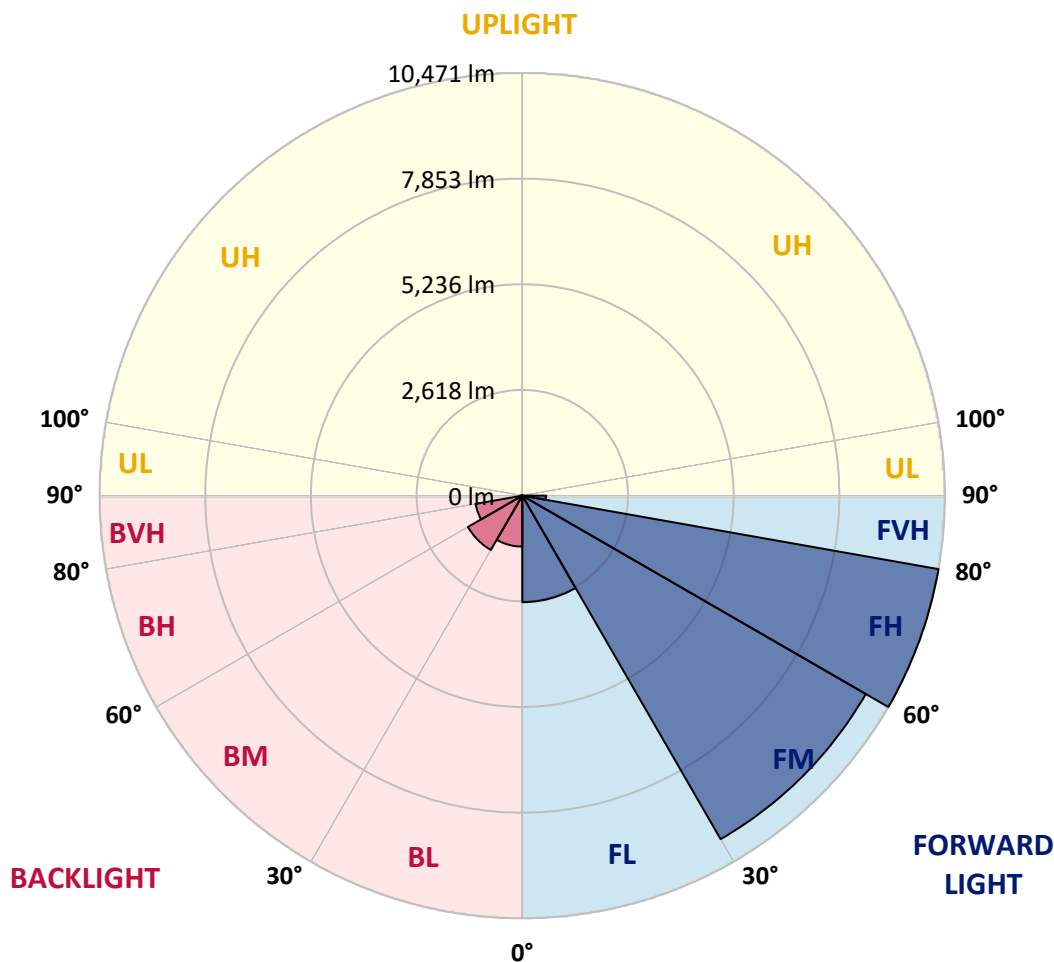
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2640.1	9.6			
FM	(30°-60°)	9825.8	35.6			
FH	(60°-80°)	10471.3	38.0			G4/12000
FVH	(80°-90°)	589.0	2.1			G4/750
BL	(0°-30°)	1262.7	4.6	B3/2500		
BM	(30°-60°)	1553.6	5.6	B2/2500		
BH	(60°-80°)	1174.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	48.9	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6
2.5°	7900.5	7922.0	7915.9	7908.2	7895.9	7862.1	7806.7	7797.5	7762.1	7686.8	7593.0
5°	7779.1	7797.5	7799.0	7809.8	7825.2	7819.0	7779.1	7774.4	7722.2	7620.7	7463.9
7.5°	7362.4	7387.0	7440.8	7500.8	7554.6	7605.3	7617.6	7625.3	7593.0	7476.2	7267.1
10°	6893.5	6918.1	6942.7	7031.9	7164.1	7290.2	7394.7	7408.5	7416.2	7308.6	7053.4
12.5°	6373.9	6424.6	6476.9	6609.1	6785.9	6984.2	7168.7	7197.9	7250.2	7168.7	6868.9
15°	5932.7	5985.0	6060.3	6178.7	6392.4	6678.3	6938.1	6985.8	7088.8	7047.3	6696.7
17.5°	5626.7	5645.2	5697.5	5832.8	6063.4	6364.7	6712.1	6807.4	6971.9	6961.2	6549.2
20°	5385.4	5408.4	5440.7	5523.7	5763.6	6081.8	6501.5	6624.5	6847.4	6884.3	6403.1
22.5°	5283.9	5300.8	5296.2	5340.8	5503.8	5823.5	6287.8	6433.9	6736.7	6832.0	6267.8
25°	5290.1	5305.4	5282.4	5271.6	5368.5	5596.0	6064.9	6250.9	6647.6	6796.7	6144.8
27.5°	5393.1	5403.8	5360.8	5317.7	5325.4	5454.6	5880.4	6086.4	6572.2	6812.1	6041.8
30°	5531.4	5551.4	5523.7	5471.5	5414.6	5420.7	5762.0	5965.0	6536.9	6865.9	5992.6
32.5°	5709.8	5728.2	5715.9	5674.4	5600.6	5519.1	5732.8	5920.4	6539.9	6975.0	5981.9
35°	5897.3	5934.2	5954.2	5951.1	5891.2	5749.7	5848.1	6003.4	6613.7	7158.0	6044.9
37.5°	6109.5	6140.2	6226.3	6281.7	6226.3	6061.8	6107.9	6215.6	6776.7	7422.4	6183.3
40°	6315.5	6361.6	6487.7	6659.9	6638.3	6493.8	6504.6	6575.3	7064.2	7815.9	6453.8
42.5°	6530.7	6586.1	6805.9	7061.1	7111.8	6999.6	7028.8	7091.9	7473.1	8361.7	6918.1
45°	6807.4	6873.5	7144.1	7462.4	7662.2	7593.0	7676.0	7706.8	8020.4	9072.0	7530.0
47.5°	7164.1	7241.0	7574.6	7971.2	8254.1	8317.1	8461.6	8443.2	8698.4	9912.9	8323.3
50°	7765.2	7808.3	8123.4	8527.7	8916.7	9201.1	9357.9	9387.1	9539.3	10730.8	9210.3
52.5°	8480.1	8518.5	8746.1	9099.6	9587.0	10189.6	10577.1	10481.7	10518.6	11727.0	10248.1
55°	9284.1	9348.7	9493.2	9728.4	10360.3	11247.3	12025.2	12048.3	11639.4	12680.2	11242.7
57.5°	9906.8	10015.9	10263.4	10598.6	11399.5	12423.4	13468.8	13484.2	12961.5	13697.9	12340.4
60°	9593.1	9722.3	10288.0	11104.4	12763.2	14475.8	15193.7	15106.1	14248.3	14857.1	13679.4
62.5°	8240.3	8263.3	9085.8	10361.8	13182.9	17221.5	17761.1	17390.6	15965.5	16326.8	15040.0
65°	5333.1	5483.8	6135.6	7923.6	11803.9	18745.1	22259.5	21403.2	18373.0	17994.8	16179.2
67.5°	3366.8	3328.4	3599.0	4524.5	8118.8	17402.9	26098.3	25963.0	21521.5	19047.9	15907.1
69°	2791.8	2834.9	2927.1	3468.3	5586.8	14858.6	26551.8	27486.5	23048.1	18964.9	14918.6
70°	2532.0	2552.0	2648.9	3074.7	4310.8	12444.9	25807.7	27445.0	23647.7	18617.5	14202.1
72.5°	2009.3	2007.8	2173.8	2558.2	3222.3	7104.1	21191.0	23827.6	22977.4	17000.1	11734.7
75°	1526.6	1551.2	1734.1	2164.6	2968.6	3881.8	14787.9	18350.0	18351.5	13427.3	7322.5
77.5°	1100.8	1116.1	1329.8	1817.2	2796.5	3147.0	9849.9	13161.4	12372.7	6152.5	2301.4
80°	721.0	730.2	893.2	1439.0	2521.3	2968.6	5840.4	8055.8	5835.8	1632.7	761.0
82.5°	395.1	441.2	545.8	931.6	2023.2	2742.7	3549.8	4077.1	2189.2	727.2	396.6
85°	198.3	210.6	307.5	544.2	1322.1	2269.1	2472.1	2338.3	1130.0	361.3	206.0
87.5°	58.4	73.8	127.6	210.6	536.5	1182.2	1375.9	1234.5	435.1	130.7	43.0
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°	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6	7617.6
2.5°	7554.6	7526.9	7403.9	7293.2	7191.8	7084.2	6993.5	6913.5	6921.2	6922.7	6841.3
5°	7382.4	7319.4	7085.7	6867.4	6682.9	6449.2	6249.4	6120.2	6055.7	5969.6	6000.3
7.5°	7148.7	7027.3	6702.9	6340.1	6000.3	5697.5	5368.5	5142.5	4998.0	4858.1	4876.5
10°	6907.4	6712.1	6240.2	5760.5	5320.8	4836.5	4416.8	4057.1	3789.6	3689.7	3623.6
12.5°	6659.9	6403.1	5803.5	5165.5	4558.3	3978.7	3383.7	2997.9	2702.7	2545.9	2565.9
15°	6433.9	6121.8	5348.5	4570.6	3781.9	3091.6	2498.2	2130.8	1924.8	1881.7	1906.3
17.5°	6224.8	5815.8	4922.6	3992.5	3071.6	2318.3	1877.1	1669.6	1586.6	1563.5	1562.0
20°	6009.5	5556.0	4444.5	3374.5	2393.7	1797.2	1540.4	1443.6	1428.2	1437.4	1439.0
22.5°	5791.2	5234.7	3952.6	2761.1	1906.3	1469.7	1346.7	1320.6	1332.9	1354.4	1357.5
25°	5589.8	4951.8	3479.1	2223.0	1522.0	1291.4	1231.4	1231.4	1259.1	1291.4	1292.9
27.5°	5423.8	4678.2	3007.1	1764.9	1274.5	1162.2	1142.3	1153.0	1191.5	1216.1	1217.6
30°	5287.0	4423.0	2561.2	1414.4	1120.7	1059.2	1054.6	1073.1	1100.8	1123.8	1125.3
32.5°	5184.0	4198.5	2144.6	1188.4	1014.7	980.8	979.3	993.1	1008.5	1014.7	1020.8
35°	5144.0	4012.5	1763.4	1045.4	943.9	922.4	922.4	920.9	927.0	930.1	933.2
37.5°	5176.3	3869.5	1468.2	953.2	891.7	876.3	867.1	857.8	854.8	854.8	856.3
40°	5313.1	3794.2	1248.3	893.2	854.8	831.7	814.8	804.0	793.3	796.4	799.4
42.5°	5603.7	3808.0	1099.2	853.2	822.5	790.2	765.6	753.3	745.6	754.8	753.3
45°	6066.4	3946.4	1003.9	825.6	790.2	748.7	725.6	713.3	713.3	727.2	731.8
47.5°	6713.7	4210.8	953.2	804.0	765.6	716.4	693.4	684.1	687.2	710.3	711.8
50°	7503.9	4670.5	943.9	793.3	753.3	693.4	667.2	658.0	665.7	690.3	693.4
52.5°	8375.5	5262.4	988.5	794.8	742.5	679.5	645.7	631.9	639.5	659.5	665.7
55°	9408.7	6003.4	1103.8	801.0	727.2	671.8	630.3	599.6	608.8	622.6	624.2
57.5°	10463.3	6938.1	1306.8	802.5	714.9	658.0	604.2	564.2	564.2	573.4	578.0
60°	11751.6	7955.8	1574.3	804.0	716.4	638.0	568.8	524.2	518.1	522.7	524.2
62.5°	13030.7	8807.5	1618.8	799.4	731.8	618.0	530.4	484.3	473.5	472.0	468.9
65°	13594.9	8649.2	1326.7	777.9	748.7	605.7	499.6	445.8	427.4	421.2	421.2
67.5°	12675.5	7316.3	997.7	748.7	737.9	593.4	470.4	413.6	392.0	379.7	379.7
69°	11811.6	6507.7	896.3	728.7	710.3	573.4	452.0	396.6	370.5	356.7	352.1
70°	11144.3	5951.1	853.2	711.8	684.1	550.4	438.1	384.3	355.1	339.8	336.7
72.5°	8893.6	4669.0	747.2	647.2	582.7	462.7	389.0	345.9	318.2	301.3	296.7
75°	5125.6	2530.5	619.6	562.7	468.9	359.7	329.0	301.3	279.8	264.4	259.8
77.5°	1577.3	977.8	448.9	444.3	344.4	278.3	262.9	252.1	236.8	219.8	216.8
80°	664.1	498.1	304.4	299.8	229.1	193.7	189.1	187.6	181.4	167.6	163.0
82.5°	364.4	281.3	212.2	184.5	138.4	112.2	116.8	118.4	113.8	99.9	90.7
85°	178.3	153.7	103.0	83.0	63.0	40.0	38.4	46.1	43.0	30.7	33.8
87.5°	35.4	43.0	27.7	12.3	6.1	0.0	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)