

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: P457924

Luminaire Tested: **GALN-SA9B-740-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52572 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

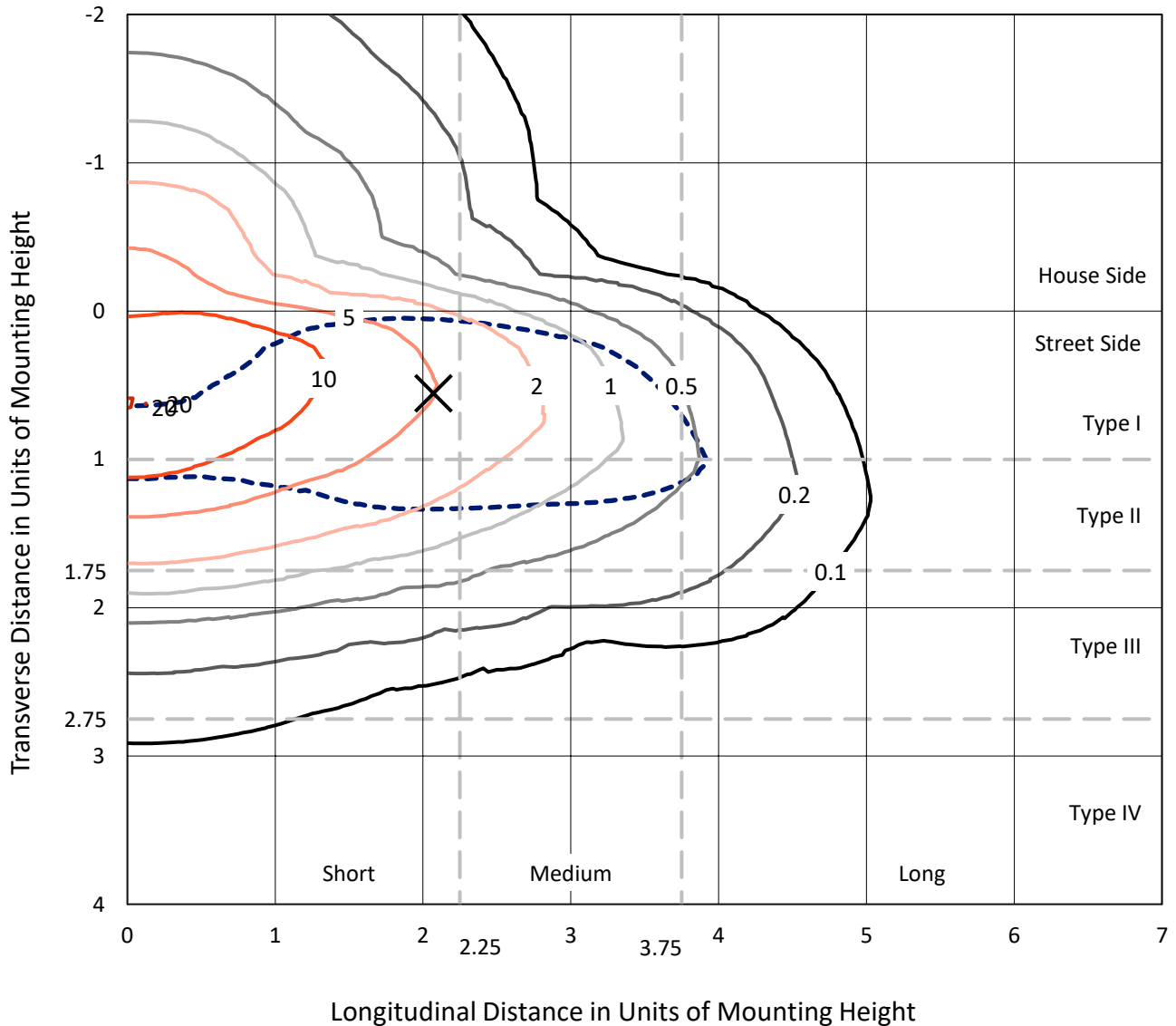
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

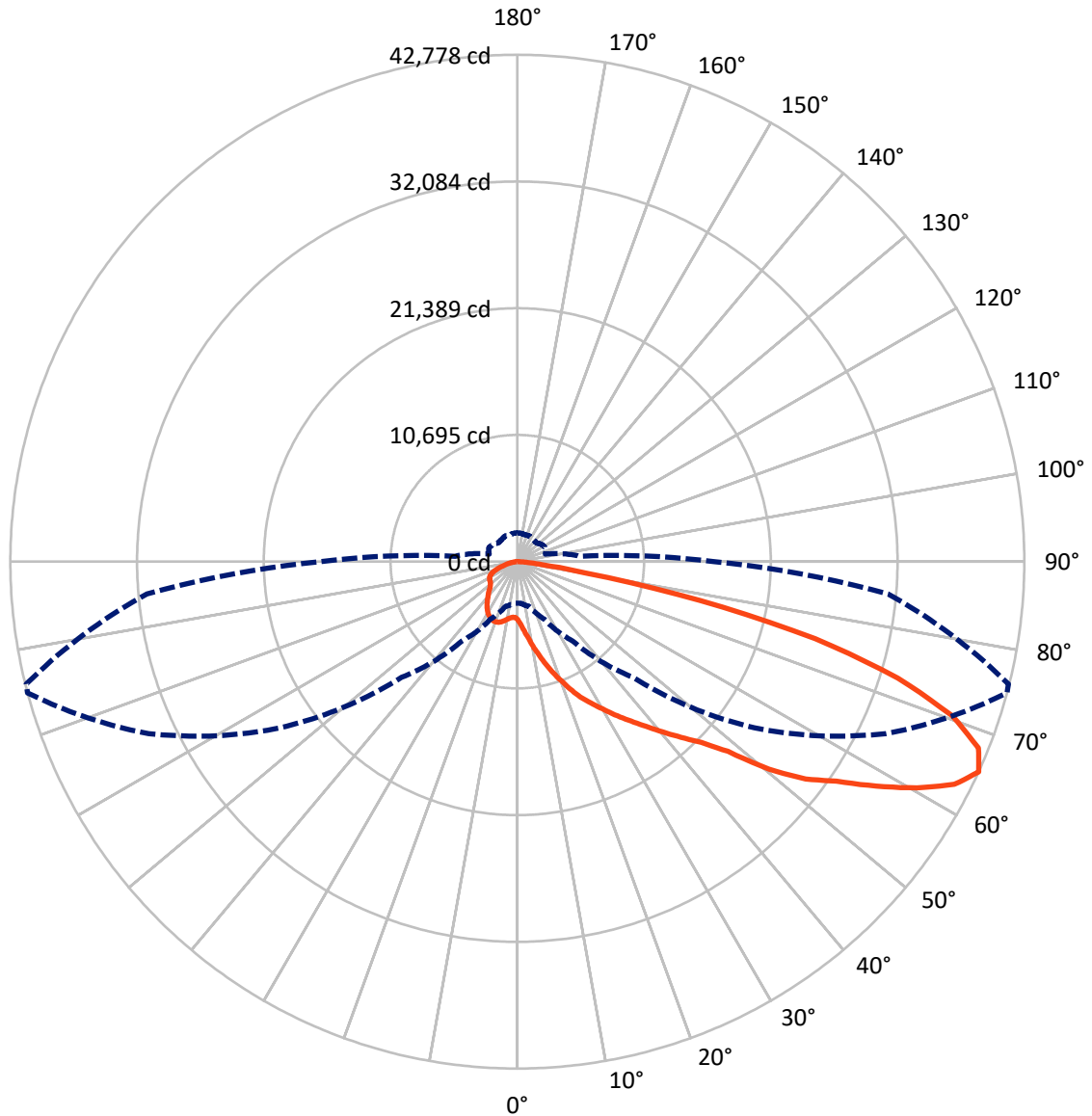
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8838.0	0.0	8838.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	43734.0	0.0	43734.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	52572.0	0.0	52572.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.5	1.1
10°-20°	2324.5	4.4
20°-30°	4490.2	8.5
30°-40°	7293.4	13.9
40°-50°	10032.7	19.1
50°-60°	11845.3	22.5
60°-70°	10378.4	19.7
70°-80°	4954.7	9.4
80°-90°	659.3	1.3
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°	52572.0	100.0
0°-180°	52572.0	100.0

Coefficient of Utilization



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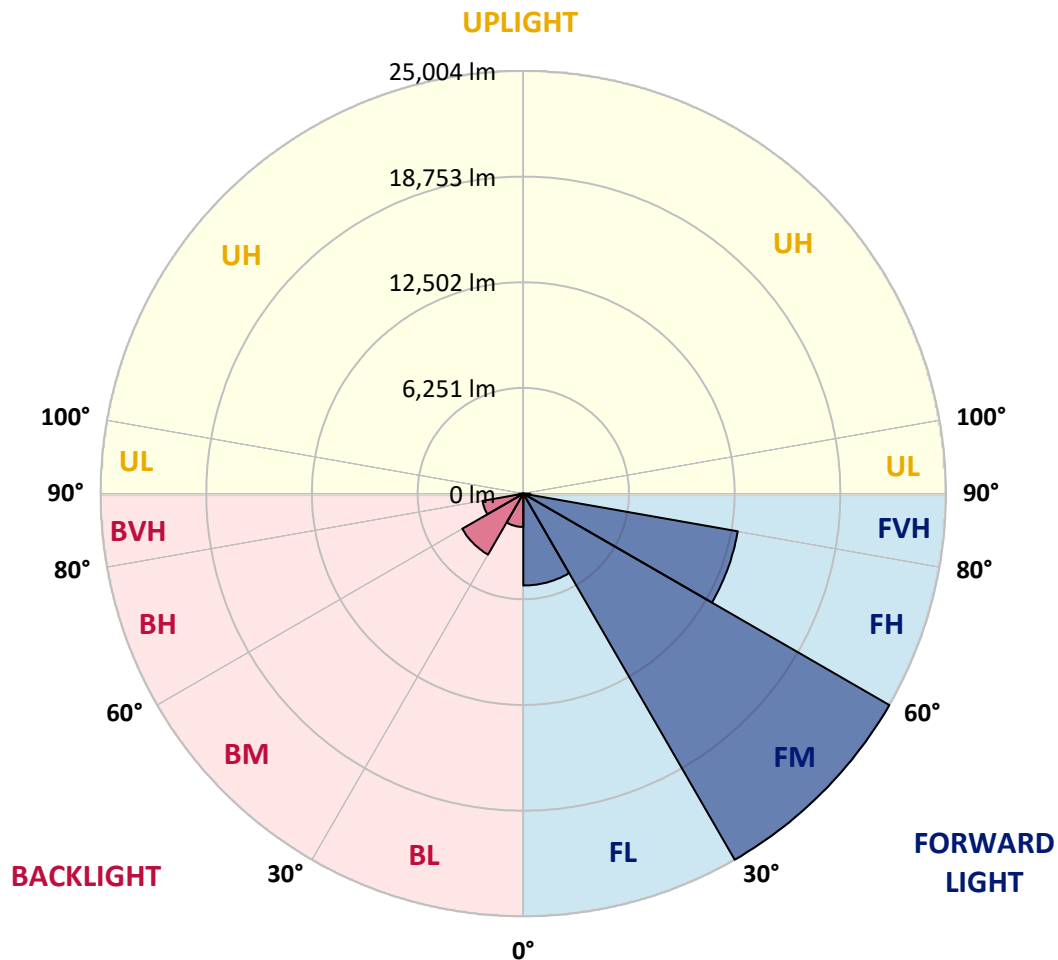
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5435.1	10.3			
FM (30°-60°)	25004.4	47.6			
FH (60°-80°)	12882.5	24.5			G5
FVH (80°-90°)	412.0	0.8			G3/500
BL (0°-30°)	1973.1	3.8	B3/2500		
BM (30°-60°)	4167.1	7.9	B3/5000		
BH (60°-80°)	2450.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	247.3	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6
2.5°	6490.0	6447.2	6401.6	6276.1	6142.1	5991.0	5774.3	5566.1	5289.5	5281.0	5075.7
5°	8289.3	8260.8	8058.3	7941.4	7630.6	7217.1	6866.4	6321.8	5817.0	5757.2	5358.0
7.5°	9943.1	9831.9	9754.9	9543.9	9236.0	8705.6	8026.9	7291.3	6447.2	6367.4	5705.8
10°	11189.2	11177.8	11137.9	10955.4	10724.5	10196.9	9444.1	8389.1	7245.6	7088.8	6127.9
12.5°	12121.7	12130.2	12124.5	12121.7	11956.3	11508.6	10693.1	9581.0	8052.6	7941.4	6615.5
15°	12734.8	12820.3	12854.5	12997.1	13011.3	12711.9	12010.5	10733.0	8962.2	8796.8	7140.1
17.5°	13139.7	13182.4	13342.1	13584.5	13781.3	13727.1	13102.6	11799.5	9891.8	9615.2	7684.8
20°	13527.5	13601.6	13724.2	14055.0	14402.9	14562.6	14123.4	12891.6	10812.9	10636.1	8286.4
22.5°	14334.4	14439.9	14482.7	14651.0	14947.5	15229.8	15030.2	13938.1	11822.3	11582.8	8925.2
25°	15700.3	15811.5	15691.8	15651.8	15748.8	15888.5	15845.7	14924.7	12774.7	12432.5	9529.7
27.5°	17479.6	17493.9	17260.1	17037.7	16798.1	16726.8	16595.7	15800.1	13601.6	13316.5	10137.0
30°	19390.1	19321.7	18933.9	18531.8	18126.9	17727.7	17351.3	16644.1	14522.6	14194.7	10733.0
32.5°	21163.8	21126.7	20696.1	20071.6	19387.3	19010.9	18249.5	17496.7	15509.3	15192.7	11346.1
35°	22492.6	22546.7	22073.4	21391.9	20644.8	20311.2	19350.2	18392.1	16530.1	16185.1	12013.3
37.5°	23436.4	23407.9	22988.7	22398.5	21742.6	21451.8	20636.2	19370.2	17627.9	17297.1	12743.3
40°	23772.9	23755.8	23445.0	23014.4	22598.1	22495.4	21982.1	20425.2	18885.4	18497.6	13621.6
42.5°	23559.0	23596.1	23390.8	23273.9	23196.9	23271.0	23319.5	21808.2	20257.0	19900.6	14574.0
45°	22903.2	22883.2	22854.7	23045.7	23479.2	23966.8	24642.6	23114.2	21748.3	21463.2	15851.4
47.5°	21731.2	21873.8	21945.1	22472.6	23419.3	24574.1	26165.3	24865.0	23912.6	23664.5	17799.0
50°	20091.6	20205.7	20627.7	21565.8	22977.3	24802.3	27653.8	27727.9	27522.6	27057.8	19914.8
52.5°	17531.0	17707.8	18577.5	20296.9	22070.5	24708.2	28554.8	30183.0	30453.9	30106.0	21999.2
55°	14665.2	14913.3	15831.5	18087.0	20821.6	24194.9	29176.4	31605.9	32686.6	32364.4	24006.7
57.5°	11859.3	12121.7	13065.5	15249.8	18643.0	23060.0	29584.2	33191.3	35726.3	35307.2	26504.6
60°	8888.1	9161.8	9971.7	12221.5	15540.6	20841.5	29307.6	34565.8	38763.2	38583.5	29005.4
62.5°	5734.3	6036.6	6740.9	8602.9	11944.9	17810.4	27827.7	35324.3	41392.2	41175.5	30830.3
65°	3493.1	3527.3	3915.1	5340.8	8175.2	13789.8	24443.0	34317.7	42778.1	42712.5	31386.4
67.5°	2258.4	2312.6	2489.4	3199.4	4901.7	9578.2	19544.1	30995.7	41968.2	41945.4	30237.2
70°	1907.6	1924.8	2004.6	2158.6	2848.6	5808.5	13724.2	25700.5	38891.5	38891.5	27474.1
72.5°	1705.2	1728.0	1756.5	1805.0	2033.1	3290.6	8189.5	20006.1	33579.1	33801.6	23385.1
75°	1548.4	1542.7	1559.8	1568.3	1733.7	2150.0	4234.5	14796.4	25977.1	25532.2	16935.0
77.5°	1325.9	1334.5	1325.9	1363.0	1531.3	1636.8	2150.0	9928.9	15743.1	15167.1	8500.3
80°	1089.3	1103.5	1117.8	1140.6	1308.8	1243.2	1291.7	4525.3	5822.7	5700.1	2626.2
82.5°	818.4	838.3	861.2	915.3	1029.4	821.2	815.5	1933.3	2101.5	1924.8	966.7
85°	330.8	390.7	590.3	644.4	647.3	450.5	501.9	807.0	858.3	838.3	379.2
87.5°	77.0	91.2	191.0	288.0	265.2	168.2	185.3	262.3	299.4	276.6	128.3
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°	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6
2.5°	4981.6	4881.8	4710.7	4579.5	4485.4	4402.7	4351.4	4320.0	4308.6	4305.8	4308.6
5°	5149.8	4973.0	4702.1	4531.0	4436.9	4382.7	4351.4	4348.5	4351.4	4354.2	4345.7
7.5°	5380.8	5127.0	4773.4	4613.7	4542.4	4502.5	4488.2	4482.5	4485.4	4482.5	4482.5
10°	5688.7	5340.8	4913.1	4747.7	4687.8	4642.2	4619.4	4605.2	4593.8	4582.3	4576.6
12.5°	6028.1	5577.5	5064.2	4904.6	4819.0	4747.7	4696.4	4659.3	4633.7	4608.0	4602.3
15°	6407.3	5828.4	5232.5	5010.1	4887.5	4781.9	4693.6	4633.7	4588.0	4551.0	4548.1
17.5°	6769.4	6065.1	5346.5	5058.5	4878.9	4730.6	4613.7	4531.0	4474.0	4425.5	4419.8
20°	7157.2	6290.4	5397.9	5027.2	4793.4	4613.7	4459.7	4359.9	4294.3	4240.2	4231.6
22.5°	7547.9	6481.4	5392.2	4927.4	4645.1	4434.1	4271.5	4166.0	4089.0	4034.9	4014.9
25°	7921.4	6635.4	5320.9	4767.7	4439.8	4220.2	4054.8	3957.9	3889.4	3823.8	3823.8
27.5°	8257.9	6726.7	5186.9	4573.8	4228.8	3997.8	3866.6	3778.2	3715.5	3672.7	3647.1
30°	8588.7	6769.4	5004.4	4328.6	4006.3	3809.6	3704.1	3652.8	3595.7	3547.3	3541.6
32.5°	8885.2	6760.9	4776.2	4089.0	3795.3	3655.6	3612.8	3572.9	3513.0	3444.6	3427.5
35°	9173.2	6703.9	4505.4	3826.7	3618.5	3564.4	3575.8	3518.7	3410.4	3324.8	3310.6
37.5°	9486.9	6601.2	4208.8	3612.8	3470.3	3521.6	3550.1	3424.6	3247.8	3113.8	3082.5
40°	9849.0	6484.3	3900.8	3399.0	3353.4	3481.7	3481.7	3250.7	3008.3	2925.6	2902.8
42.5°	10273.9	6387.3	3644.2	3219.3	3256.4	3384.7	3370.5	3019.7	2919.9	2877.2	2865.7
45°	10946.9	6353.1	3379.0	3062.5	3176.6	3270.7	3153.7	2939.9	2882.9	2848.6	2837.2
47.5°	12010.5	6393.0	3145.2	2945.6	3085.3	3156.6	2911.4	2885.7	2845.8	2797.3	2791.6
50°	12997.1	6356.0	2979.8	2880.0	3005.5	3019.7	2811.6	2820.1	2797.3	2743.1	2731.7
52.5°	13804.1	6239.1	2874.3	2845.8	2937.0	2780.2	2717.5	2748.8	2740.3	2671.8	2660.4
55°	14690.9	6167.8	2823.0	2845.8	2891.4	2572.0	2629.1	2674.7	2663.3	2614.8	2612.0
57.5°	15765.9	6182.0	2785.9	2854.3	2845.8	2466.5	2540.7	2594.9	2592.0	2577.7	2577.7
60°	16866.6	6187.7	2728.9	2851.5	2791.6	2383.8	2449.4	2526.4	2532.1	2540.7	2540.7
62.5°	17231.6	5939.7	2617.7	2800.2	2671.8	2304.0	2363.9	2469.4	2463.7	2486.5	2489.4
65°	16550.0	5252.4	2452.3	2683.3	2517.9	2247.0	2298.3	2395.3	2363.9	2423.8	2435.2
67.5°	15064.4	4345.7	2195.6	2472.2	2346.8	2187.1	2255.5	2292.6	2235.6	2352.5	2355.3
70°	13019.9	3393.3	1870.6	2172.8	2152.9	2124.4	2221.3	2164.3	2084.4	2227.0	2198.5
72.5°	10887.0	2592.0	1494.2	1776.5	1893.4	2030.3	2161.4	1998.9	1887.7	1930.5	1879.1
75°	8178.1	1916.2	1200.5	1391.5	1576.9	1896.2	2107.3	1799.3	1628.2	1588.3	1576.9
77.5°	4168.9	1251.8	898.2	1040.8	1183.4	1713.7	2033.1	1565.5	1348.8	1286.0	1257.5
80°	1488.5	778.5	633.0	718.6	798.4	1474.2	1776.5	1294.6	1046.5	1035.1	1046.5
82.5°	690.1	501.9	424.9	470.5	473.3	983.8	1354.5	966.7	795.6	1209.0	1020.8
85°	296.6	250.9	239.5	233.8	216.7	439.1	761.3	519.0	809.8	362.1	333.6
87.5°	88.4	99.8	88.4	65.6	48.5	48.5	77.0	28.5	20.0	14.3	14.3
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)