

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: P457995

Luminaire Tested: **GALN-SA9B-827-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38292 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

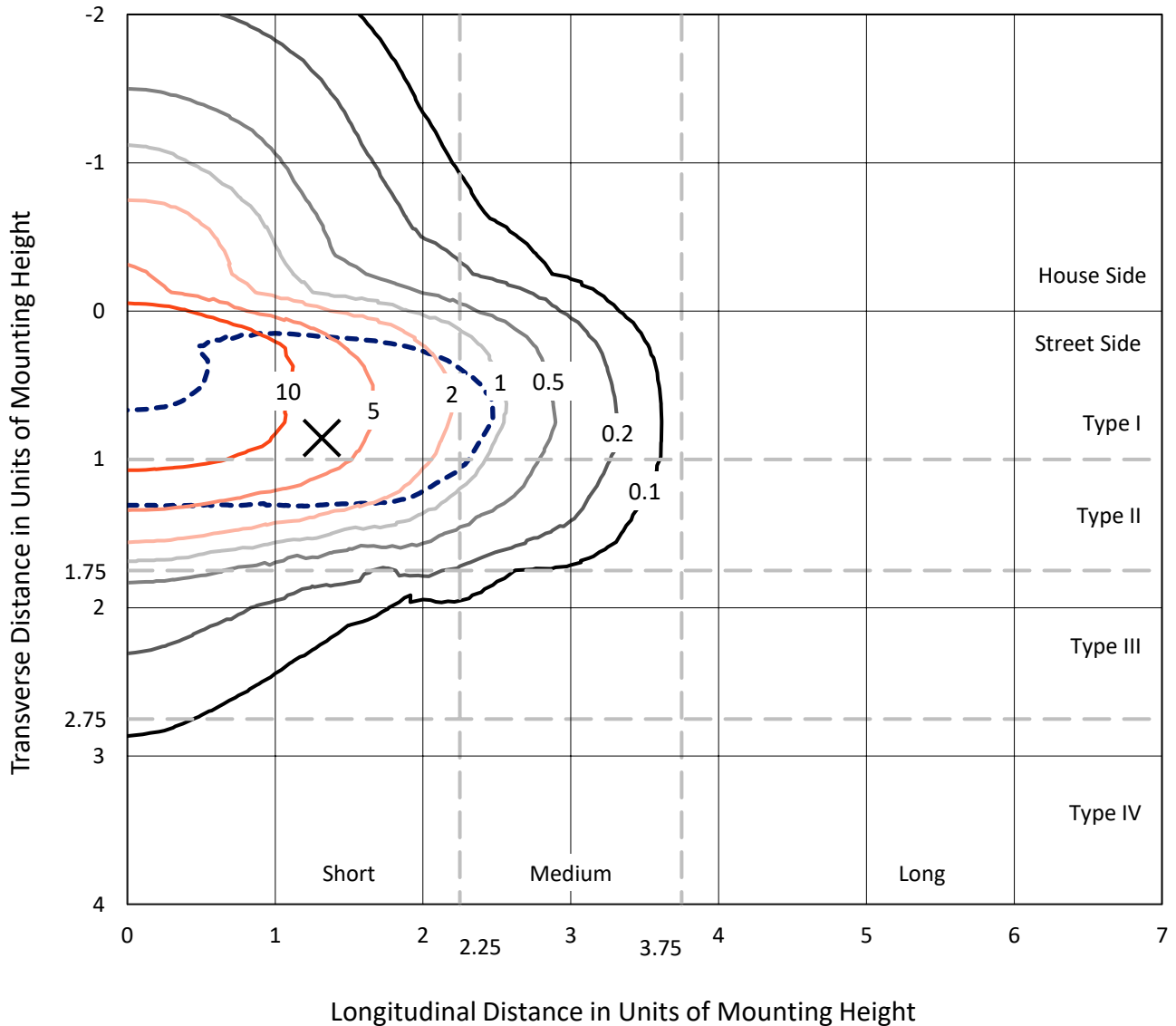
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

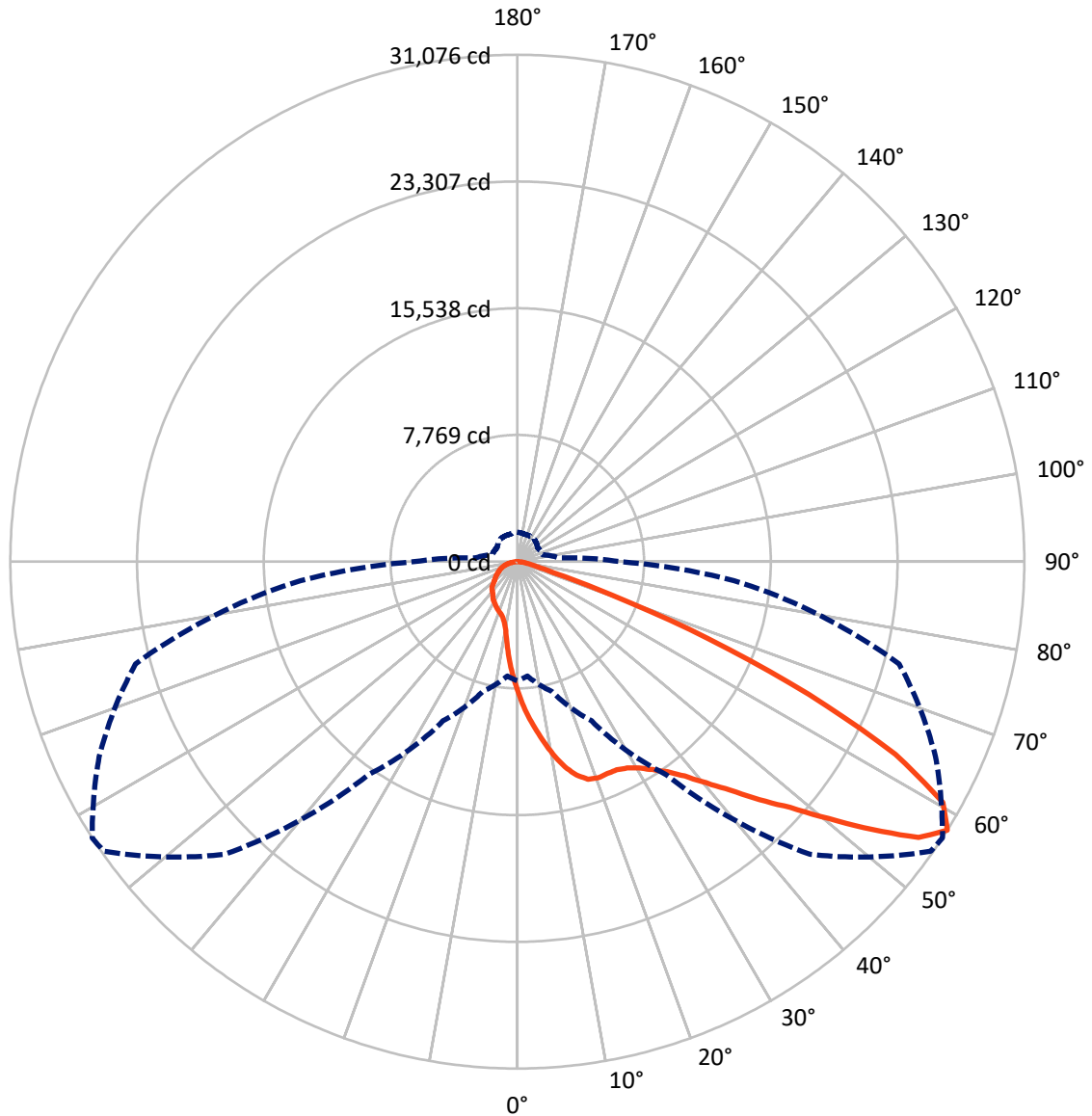
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5823.1	0.0	5823.1
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	32468.9	0.0	32468.9
	% Fixture	84.8	0.0	84.8
Total	Lumens	38292.0	0.0	38292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.2	2.0
10°-20°	2278.6	6.0
20°-30°	3783.6	9.9
30°-40°	5699.3	14.9
40°-50°	8556.9	22.3
50°-60°	9591.2	25.0
60°-70°	5613.2	14.7
70°-80°	1660.4	4.3
80°-90°	335.6	0.9
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°	38292.0	100.0
0°-180°	38292.0	100.0

Coefficient of Utilization



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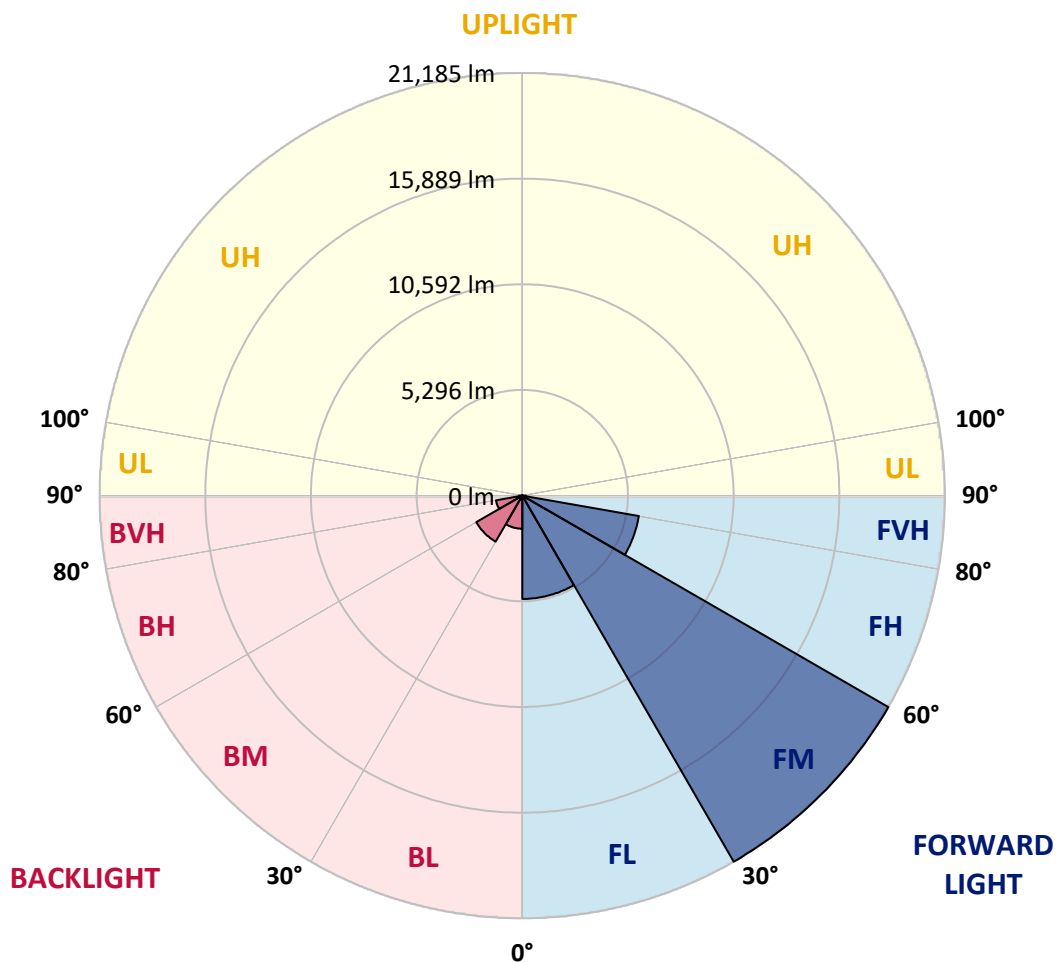
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5176.2	13.5			
FM	(30°-60°)	21184.8	55.3			
FH	(60°-80°)	5933.7	15.5			G3/7500
FVH	(80°-90°)	174.1	0.5			G2/225
BL	(0°-30°)	1659.2	4.3	B3/2500		
BM	(30°-60°)	2662.6	7.0	B3/5000		
BH	(60°-80°)	1339.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	161.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7
2.5°	9996.2	9887.2	9801.2	9725.8	9627.2	9361.0	9094.8	9090.6	8878.9	8552.0	8216.6
5°	11624.8	11478.1	11496.9	11262.2	11027.4	10641.7	10077.9	10048.6	9597.9	8985.8	8363.3
7.5°	12685.4	12687.5	12628.8	12494.7	12241.0	11803.0	11163.7	11019.0	10392.3	9463.7	8531.0
10°	12630.9	12687.5	12786.0	12901.3	12978.9	12763.0	12180.3	12004.2	11188.8	10042.3	8717.5
12.5°	11905.7	11993.7	12134.1	12423.4	12890.8	13247.2	13048.0	12905.5	12111.1	10618.7	8923.0
15°	11452.9	11505.3	11582.9	11777.8	12280.9	13134.0	13649.6	13574.1	12981.0	11270.6	9153.5
17.5°	11314.6	11367.0	11392.1	11511.6	11870.0	12744.1	13886.5	14020.6	13752.3	11870.0	9386.2
20°	11452.9	11478.1	11478.1	11549.3	11830.2	12515.6	13876.0	14146.4	14385.3	12589.0	9604.2
22.5°	11815.5	11826.0	11811.3	11836.5	12046.1	12578.5	13777.5	14112.8	14896.8	13198.9	9774.0
25°	12404.5	12421.3	12324.9	12266.2	12419.2	12855.2	13832.0	14140.1	15297.1	13781.7	9887.2
27.5°	13073.2	13094.1	12976.8	12840.5	12911.8	13196.8	14045.8	14322.4	15596.8	14356.0	9958.4
30°	13892.7	13901.1	13704.1	13540.6	13494.5	13706.2	14410.5	14668.3	15969.9	15033.0	10065.3
32.5°	14731.2	14794.1	14540.4	14309.9	14232.3	14297.3	14949.2	15198.6	16414.3	15760.3	10237.2
35°	15871.4	15881.9	15578.0	15297.1	15041.4	15125.2	15638.8	15819.0	17028.5	16600.9	10480.3
37.5°	17294.7	17391.1	16971.9	16447.8	16133.4	16011.9	16473.0	16670.0	17889.9	17632.1	10847.2
40°	18875.1	18910.7	18552.3	18225.3	17651.0	17298.9	17617.5	17831.3	18952.7	18862.5	11272.7
42.5°	19868.6	19946.2	19973.4	19939.9	19508.1	18917.0	19038.6	19139.2	20210.3	20017.5	11708.6
45°	20204.0	20319.3	20709.2	21535.0	21581.1	20998.4	20715.4	20811.9	21581.1	21182.9	12125.8
47.5°	19648.5	19845.6	20564.5	22258.2	23526.3	23570.3	22717.2	22505.5	22830.4	22149.2	12427.6
50°	18212.7	18254.7	19355.1	21807.5	24438.1	26029.0	25146.5	24752.5	24016.8	22863.9	12635.1
52.5°	15990.9	16039.1	16961.4	19713.5	23876.3	27747.8	27988.8	27284.5	25222.0	23419.4	12771.3
55°	11870.0	12148.8	13163.3	15823.2	21214.3	27586.4	30248.4	29848.0	26678.8	23859.5	12985.1
57.5°	7298.5	7042.8	8245.9	10765.4	15955.3	25368.7	30946.4	31076.3	28282.3	24228.5	13343.6
60°	3357.9	3408.2	3905.0	5552.5	9725.8	19845.6	29147.9	29969.6	29168.9	24215.9	13433.7
62.5°	2314.1	2267.9	2142.2	2437.7	4435.3	12551.3	24620.4	26012.2	27391.4	23463.4	13075.3
65°	2068.8	2022.7	1779.6	1697.8	2037.4	5470.7	17898.3	19654.8	23063.0	21564.4	12182.4
67.5°	1932.6	1869.7	1618.2	1458.9	1454.7	2177.8	10553.7	12668.6	17106.0	18231.6	10555.8
70°	1790.0	1739.7	1490.3	1314.2	1238.8	1368.7	4638.6	6072.3	11107.1	13138.2	8222.9
72.5°	1647.5	1588.8	1364.5	1175.9	1077.4	1025.0	1777.5	2312.0	6275.6	7877.0	5041.0
75°	1440.0	1410.7	1219.9	1064.8	957.9	827.9	1127.7	1287.0	3001.6	3617.8	2530.0
77.5°	1259.7	1228.3	1083.7	930.7	853.1	672.8	800.7	874.1	1266.0	1467.2	1142.4
80°	922.3	953.7	913.9	821.7	760.9	528.2	538.7	599.5	752.5	832.1	698.0
82.5°	584.8	643.5	704.3	633.0	576.4	417.1	373.1	396.2	513.5	545.0	310.2
85°	245.2	249.4	408.7	385.7	329.1	247.3	224.3	236.9	274.6	287.2	144.6
87.5°	94.3	92.2	144.6	134.1	102.7	71.3	71.3	79.7	109.0	100.6	46.1
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°	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7
2.5°	8072.0	7923.1	7627.6	7260.8	6992.5	6690.7	6424.4	6233.7	6162.4	6128.9	6066.0
5°	8065.7	7772.2	7160.2	6518.8	6003.1	5474.9	5028.5	4739.2	4714.1	4521.2	4502.4
7.5°	8067.8	7619.2	6644.5	5701.3	4915.3	4374.5	4005.6	3909.2	3793.9	3764.5	3779.2
10°	8074.1	7424.3	6091.2	4892.2	4131.4	3777.1	3638.8	3601.0	3605.2	3617.8	3619.9
12.5°	8082.4	7235.6	5516.9	4278.1	3691.2	3544.5	3529.8	3563.3	3598.9	3626.2	3632.5
15°	8092.9	7019.7	4957.2	3783.4	3471.1	3458.5	3506.7	3563.3	3613.6	3653.4	3659.7
17.5°	8080.3	6768.2	4487.7	3479.5	3349.5	3410.3	3490.0	3561.2	3607.3	3645.1	3649.3
20°	8051.0	6487.3	4034.9	3265.7	3274.1	3372.6	3458.5	3525.6	3575.9	3594.8	3609.4
22.5°	7937.8	6152.0	3640.9	3100.1	3183.9	3320.2	3422.9	3462.7	3406.1	3366.3	3376.8
25°	7745.0	5716.0	3274.1	2965.9	3102.2	3246.8	3351.6	3255.2	3209.1	3192.3	3200.7
27.5°	7503.9	5238.1	2997.4	2825.5	2997.4	3165.1	3135.7	3118.9	3098.0	3070.7	3077.0
30°	7244.0	4770.7	2762.6	2716.5	2884.2	2980.6	2993.2	3020.4	2997.4	2955.5	2972.2
32.5°	7003.0	4330.5	2584.5	2624.3	2804.5	2789.9	2884.2	2915.6	2808.7	2668.3	2674.6
35°	6797.6	3921.7	2450.3	2534.1	2668.3	2674.6	2768.9	2659.9	2544.6	2477.6	2481.7
37.5°	6642.4	3603.1	2362.3	2456.6	2494.3	2574.0	2523.7	2467.1	2452.4	2406.3	2408.4
40°	6550.2	3324.4	2305.7	2395.8	2389.5	2444.0	2282.6	2339.2	2360.2	2345.5	2347.6
42.5°	6458.0	3127.3	2247.0	2312.0	2309.9	2203.0	2167.3	2215.5	2270.0	2276.3	2272.1
45°	6384.6	2974.3	2186.2	2184.1	2226.0	2058.3	2047.9	2077.2	2154.8	2192.5	2190.4
47.5°	6302.9	2846.5	2094.0	2035.3	2047.9	1968.2	1951.4	1964.0	2058.3	2119.1	2135.9
50°	6200.2	2718.6	1978.7	1899.0	1846.6	1884.4	1888.6	1890.7	1985.0	2054.1	2068.8
52.5°	6118.4	2622.2	1846.6	1787.9	1725.1	1808.9	1840.3	1844.5	1901.1	1957.7	1968.2
55°	6166.6	2567.7	1716.7	1674.8	1618.2	1731.4	1792.1	1800.5	1813.1	1855.0	1861.3
57.5°	6311.3	2580.3	1611.9	1557.4	1515.5	1639.1	1741.8	1748.1	1739.7	1790.0	1798.4
60°	6355.3	2574.0	1534.3	1427.4	1402.3	1540.6	1668.5	1681.0	1679.0	1752.3	1767.0
62.5°	6170.8	2494.3	1456.8	1318.4	1301.7	1440.0	1565.8	1616.1	1626.5	1731.4	1750.2
65°	5736.9	2330.8	1354.1	1203.1	1203.1	1333.1	1467.2	1536.4	1565.8	1706.2	1727.2
67.5°	5164.7	2138.0	1249.3	1104.6	1100.4	1230.4	1362.4	1433.7	1479.8	1670.6	1683.1
70°	4286.5	1878.1	1119.3	997.7	997.7	1115.1	1234.6	1320.5	1387.6	1603.5	1603.5
72.5°	2936.6	1561.6	962.1	876.2	878.3	987.2	1108.8	1205.2	1284.9	1469.3	1473.5
75°	1857.1	1219.9	790.2	746.2	754.6	857.3	983.1	1083.7	1243.0	1452.6	1458.9
77.5°	987.2	857.3	628.8	618.3	628.8	723.1	863.6	1001.9	1247.2	1259.7	1238.8
80°	639.3	607.9	496.8	475.8	480.0	582.7	769.3	951.6	1001.9	1014.5	968.4
82.5°	347.9	385.7	352.1	331.2	331.2	454.8	656.1	756.7	719.0	597.4	570.1
85°	148.8	180.3	182.4	159.3	153.0	280.9	440.2	412.9	383.6	366.8	362.6
87.5°	41.9	58.7	58.7	44.0	33.5	77.6	88.0	25.2	0.0	2.1	4.2
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)