

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: P530347

Luminaire Tested: **GALN-SA5C-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-740-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23285 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

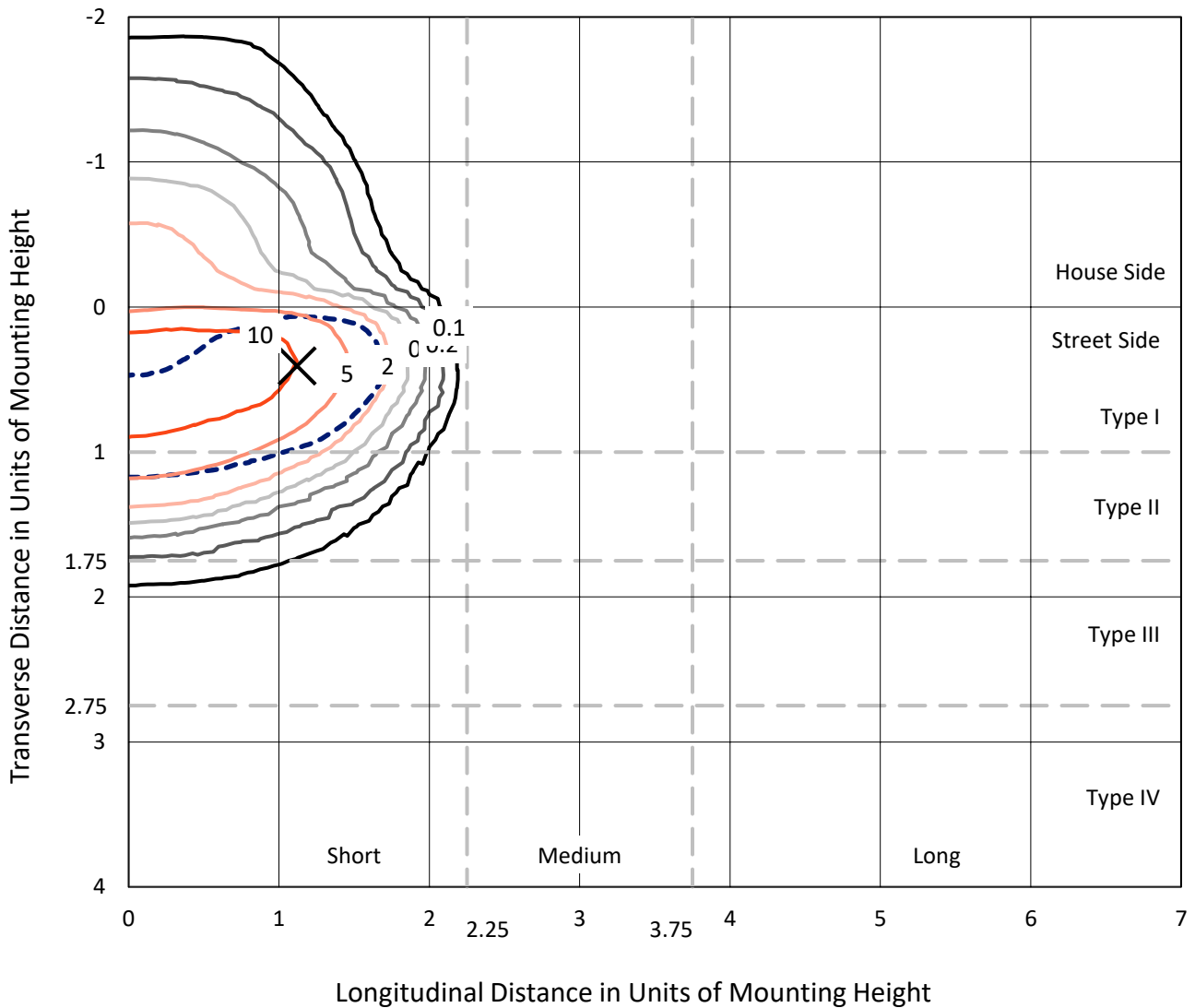
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

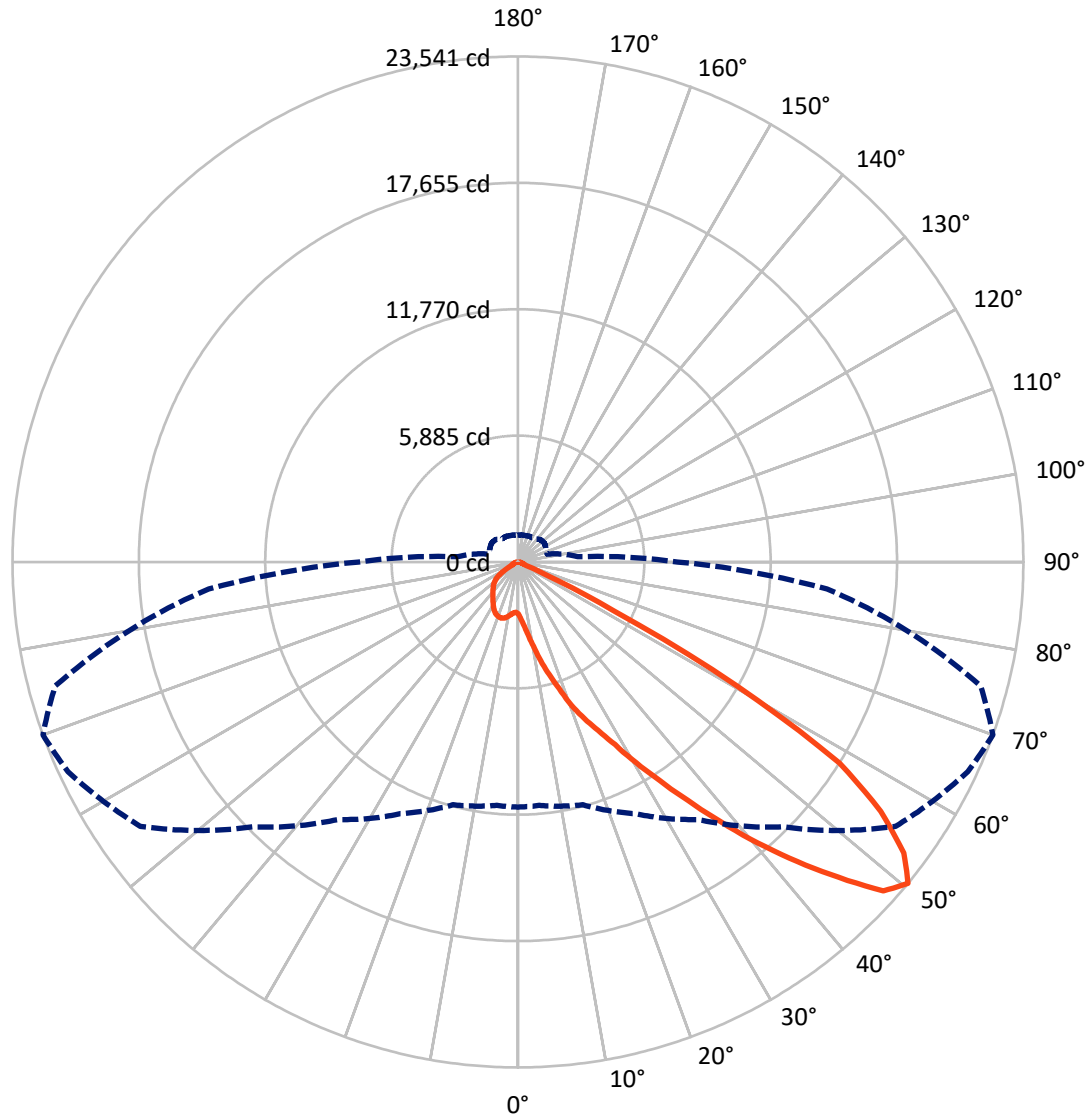
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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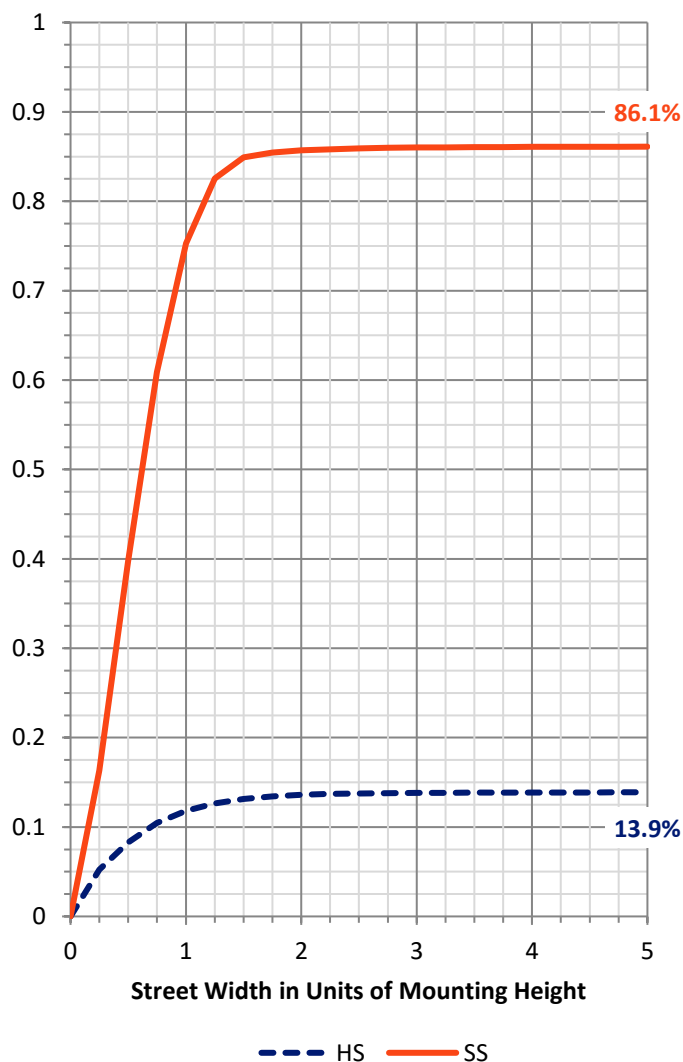
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3251.9	0.0	3251.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	20033.1	0.0	20033.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	23285.0	0.0	23285.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.6	1.3
10°-20°	1356.7	5.8
20°-30°	2846.0	12.2
30°-40°	4905.6	21.1
40°-50°	7169.5	30.8
50°-60°	5583.9	24.0
60°-70°	946.1	4.1
70°-80°	130.0	0.6
80°-90°	33.7	0.1
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°	23285.0	100.0
0°-180°	23285.0	100.0

Coefficient of Utilization



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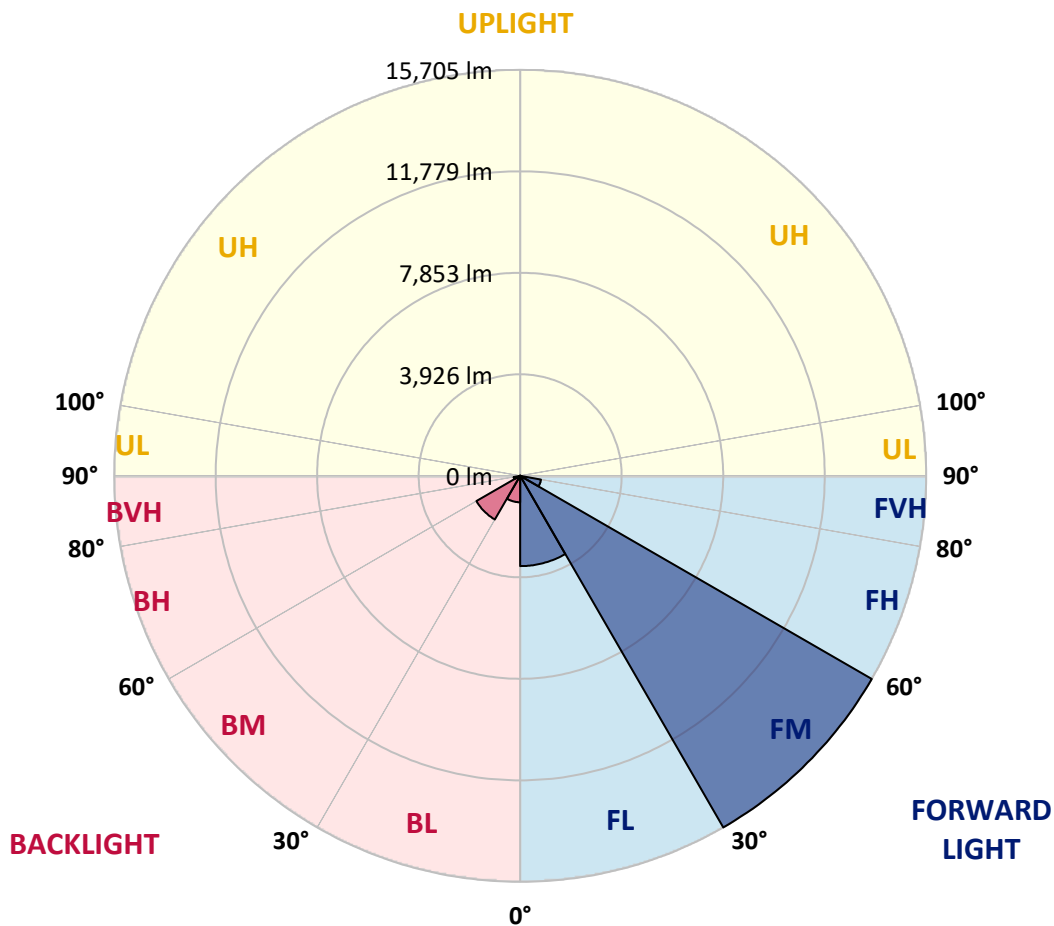
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3493.0	15.0			
FM (30°-60°)	15705.3	67.4			
FH (60°-80°)	819.2	3.5			G1/1800
FVH (80°-90°)	15.6	0.1			G1/100
BL (0°-30°)	1023.3	4.4	B3/2500		
BM (30°-60°)	1953.6	8.4	B2/2500		
BH (60°-80°)	256.9	1.1	B1/500		G1/500
BVH (80°-90°)	18.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9
2.5°	3158.4	3135.4	3085.7	2993.8	2955.5	2863.6	2810.0	2706.7	2641.6	2568.8	2488.4
5°	4448.6	4329.9	4257.1	4153.8	3851.3	3663.7	3353.6	3089.5	2967.0	2833.0	2649.2
7.5°	5780.8	5704.3	5604.7	5382.7	5175.9	4785.5	4253.3	3671.4	3422.6	3192.9	2829.2
10°	6883.4	6669.0	6657.5	6492.9	6267.0	5800.0	5160.6	4437.1	3993.0	3656.1	3085.7
12.5°	7652.9	7457.6	7545.7	7526.6	7316.0	6887.2	6148.3	5191.3	4728.0	4203.5	3349.8
15°	8353.5	8273.1	8246.3	8223.3	8139.1	7821.3	7159.0	6110.1	5440.1	4808.4	3648.4
17.5°	9038.8	8832.0	8931.6	8950.7	8943.1	8655.9	8035.7	6982.9	6194.3	5447.8	3962.4
20°	9647.5	9666.6	9532.6	9505.8	9482.9	9471.4	8866.5	7848.1	7120.8	6117.7	4372.0
22.5°	10428.5	10294.5	10413.1	10336.6	10187.3	10095.4	9632.2	8613.8	7924.7	6925.5	4789.3
25°	11351.1	11458.3	11178.8	11148.2	10983.6	10665.8	10248.5	9471.4	8698.0	7675.9	5241.0
27.5°	12488.1	12300.5	12227.8	12059.3	11760.7	11626.7	11136.7	10355.7	9632.2	8464.5	5677.5
30°	13464.3	13414.6	13050.9	12851.8	12591.5	12587.7	11902.4	11554.0	10849.6	9701.1	6278.5
32.5°	14260.6	14042.4	13908.4	13770.6	13560.1	13617.5	13039.4	12855.6	12147.4	10849.6	6986.8
35°	14792.8	14635.8	14555.4	14344.9	14283.6	14540.1	14298.9	14222.4	13640.5	12465.1	7817.5
37.5°	14961.2	15011.0	14995.7	14731.5	14861.7	15554.6	15864.7	15665.7	15359.4	14168.8	8717.2
40°	15110.5	15145.0	15068.4	15378.5	15749.9	16538.5	17660.2	17331.0	17216.1	15895.4	9969.1
42.5°	15194.8	15168.0	15168.0	15703.9	16266.7	17851.6	19394.5	19176.3	19088.2	17733.0	11416.2
45°	14831.1	14570.7	14850.2	15577.6	16710.8	18498.6	20780.3	21082.8	20956.4	19919.0	13108.3
47.5°	13472.0	13632.8	13789.8	14762.2	16171.0	18299.6	21630.2	22660.1	22893.6	21756.6	14218.5
50°	11416.2	11381.7	11707.1	12932.2	14643.5	17442.0	21465.6	23115.6	23540.6	22307.9	14452.1
52.5°	8303.7	8556.4	8908.6	10126.0	12155.0	15221.6	19340.9	21940.3	22506.9	21630.2	14298.9
55°	4835.2	4555.7	5348.2	6378.0	8292.2	11481.3	16350.9	19448.1	20497.0	20397.5	13525.6
57.5°	1937.2	1875.9	2147.7	2894.2	4326.0	7116.9	11890.9	15979.6	17660.2	18682.4	11887.1
60°	849.9	830.8	976.2	1179.1	1768.7	3280.9	6504.4	9938.4	11691.8	13054.7	8181.2
62.5°	612.5	604.9	677.6	750.4	934.1	1428.0	2733.4	4004.5	4992.2	6029.7	3663.7
65°	493.9	513.0	562.8	601.1	689.1	792.5	964.7	1114.1	1366.7	1416.5	807.8
67.5°	402.0	417.3	463.2	505.3	520.7	428.8	444.1	390.5	390.5	348.4	279.5
70°	294.8	298.6	352.2	402.0	321.6	172.3	302.4	302.4	271.8	260.3	237.4
72.5°	218.2	222.0	264.2	248.8	126.3	107.2	222.0	245.0	222.0	210.6	191.4
75°	160.8	164.6	137.8	57.4	53.6	68.9	130.2	168.4	160.8	157.0	145.5
77.5°	30.6	23.0	19.1	26.8	38.3	57.4	84.2	103.4	107.2	114.9	107.2
80°	3.8	3.8	11.5	23.0	42.1	61.3	88.1	99.5	103.4	107.2	99.5
82.5°	0.0	3.8	11.5	23.0	42.1	57.4	76.6	88.1	95.7	99.5	95.7
85°	0.0	3.8	7.7	19.1	34.5	42.1	38.3	26.8	23.0	26.8	19.1
87.5°	0.0	0.0	3.8	3.8	7.7	7.7	7.7	7.7	7.7	7.7	7.7
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°	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9
2.5°	2442.5	2427.2	2373.6	2316.2	2266.4	2289.4	2266.4	2247.2	2254.9	2247.2	2239.6
5°	2576.5	2507.6	2392.7	2343.0	2300.8	2297.0	2285.5	2281.7	2285.5	2285.5	2251.1
7.5°	2702.8	2591.8	2469.3	2415.7	2365.9	2369.8	2343.0	2343.0	2339.1	2320.0	2312.3
10°	2894.2	2744.9	2588.0	2492.3	2431.0	2419.5	2392.7	2365.9	2365.9	2365.9	2327.6
12.5°	3104.8	2917.2	2702.8	2591.8	2519.1	2461.6	2419.5	2411.9	2369.8	2362.1	2343.0
15°	3288.6	3051.2	2779.4	2626.3	2534.4	2457.8	2392.7	2350.6	2331.5	2320.0	2304.7
17.5°	3468.5	3166.1	2821.5	2626.3	2526.7	2438.7	2369.8	2331.5	2285.5	2293.2	2262.6
20°	3709.7	3288.6	2833.0	2576.5	2454.0	2369.8	2277.9	2258.7	2231.9	2209.0	2216.6
22.5°	3943.2	3376.6	2798.5	2515.2	2339.1	2239.6	2193.7	2170.7	2159.2	2140.1	2113.3
25°	4153.8	3472.3	2744.9	2404.2	2216.6	2143.9	2101.8	2097.9	2071.1	2071.1	2021.4
27.5°	4368.2	3506.8	2653.1	2274.0	2109.4	2067.3	2048.2	2040.5	2029.0	2002.2	1967.8
30°	4613.2	3518.3	2519.1	2140.1	2013.7	1967.8	1994.6	2013.7	1963.9	1914.2	1929.5
32.5°	4816.1	3491.5	2358.3	2013.7	1944.8	1921.8	1975.4	1994.6	1937.2	1883.6	1856.8
35°	5061.1	3426.4	2201.3	1914.2	1875.9	1921.8	1967.8	1967.8	1852.9	1787.8	1772.5
37.5°	5432.4	3353.6	2055.8	1830.0	1803.2	1898.9	1960.1	1918.0	1738.1	1657.7	1638.5
40°	5830.6	3307.7	1914.2	1745.7	1764.9	1860.6	1895.0	1764.9	1581.1	1531.3	1516.0
42.5°	6408.7	3215.8	1787.8	1673.0	1730.4	1807.0	1807.0	1573.5	1504.5	1477.7	1473.9
45°	7128.4	3150.7	1676.8	1611.7	1680.7	1699.8	1638.5	1473.9	1424.2	1416.5	1420.3
47.5°	7480.6	3024.4	1562.0	1539.0	1588.8	1592.6	1431.8	1393.5	1351.4	1339.9	1332.3
50°	7427.0	2798.5	1412.7	1443.3	1512.2	1473.9	1305.5	1313.1	1274.8	1271.0	1251.9
52.5°	7051.8	2442.5	1263.4	1336.1	1412.7	1301.6	1202.1	1194.4	1194.4	1144.7	1125.5
55°	6251.7	1967.8	1083.4	1175.3	1267.2	1094.9	1068.1	1060.5	1041.3	995.4	983.9
57.5°	4950.1	1443.3	815.4	915.0	1075.8	930.3	926.5	892.0	842.2	807.8	807.8
60°	2944.0	830.8	513.0	558.9	712.1	754.2	838.4	823.1	738.9	685.3	670.0
62.5°	1343.8	428.8	325.4	333.1	382.8	490.0	658.5	761.8	643.2	551.3	543.6
65°	451.7	317.8	268.0	256.5	264.2	294.8	394.3	539.8	513.0	424.9	409.6
67.5°	275.6	283.3	252.7	233.5	233.5	229.7	225.9	245.0	302.4	294.8	298.6
70°	237.4	260.3	233.5	210.6	202.9	191.4	160.8	134.0	114.9	134.0	141.6
72.5°	191.4	206.7	199.1	179.9	160.8	145.5	114.9	88.1	65.1	57.4	57.4
75°	141.6	153.1	160.8	137.8	122.5	103.4	84.2	57.4	34.5	23.0	23.0
77.5°	103.4	114.9	118.7	107.2	91.9	72.7	53.6	38.3	19.1	7.7	7.7
80°	88.1	103.4	114.9	107.2	95.7	68.9	49.8	26.8	15.3	3.8	3.8
82.5°	84.2	103.4	114.9	103.4	91.9	65.1	49.8	30.6	11.5	3.8	3.8
85°	19.1	26.8	34.5	42.1	49.8	49.8	38.3	23.0	11.5	3.8	3.8
87.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	3.8	3.8	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)