

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: P528188

Luminaire Tested: **GALN-SA3B-730-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528188  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-730-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12976 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

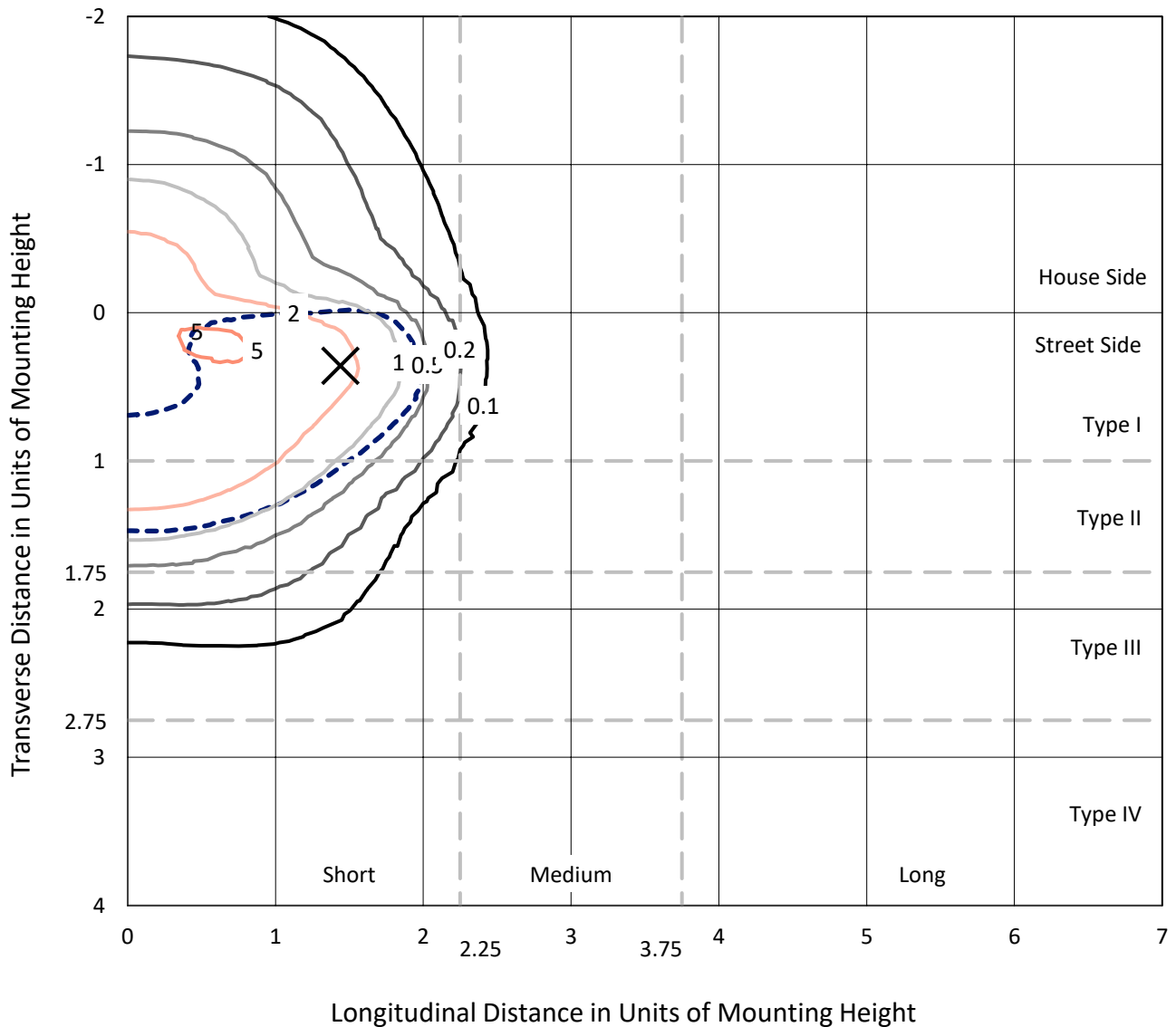
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

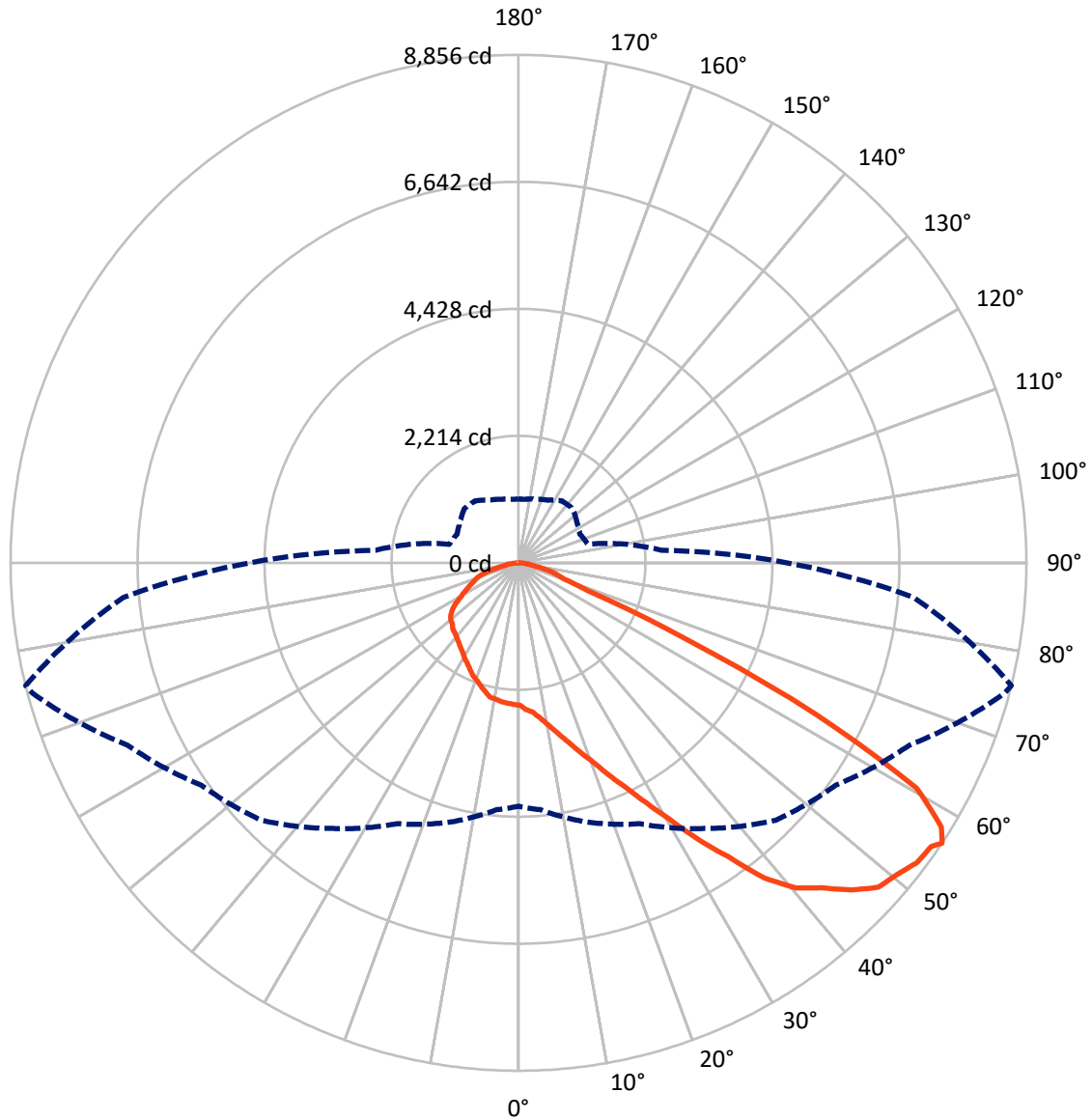
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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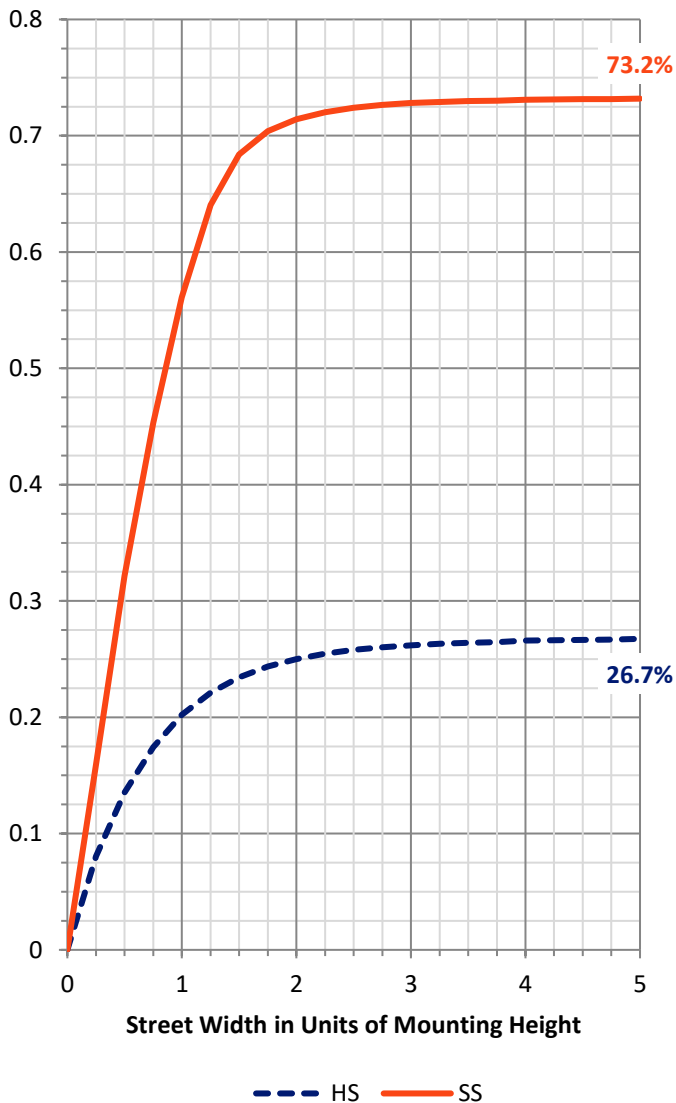
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3488.9	0.0	3488.9
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	9487.1	0.0	9487.1
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	12976.0	0.0	12976.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.2	1.9
10°-20°	773.4	6.0
20°-30°	1352.7	10.4
30°-40°	2117.9	16.3
40°-50°	3080.9	23.7
50°-60°	3386.1	26.1
60°-70°	1511.4	11.6
70°-80°	436.6	3.4
80°-90°	70.8	0.5
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°	12976.0	100.0
0°-180°	12976.0	100.0

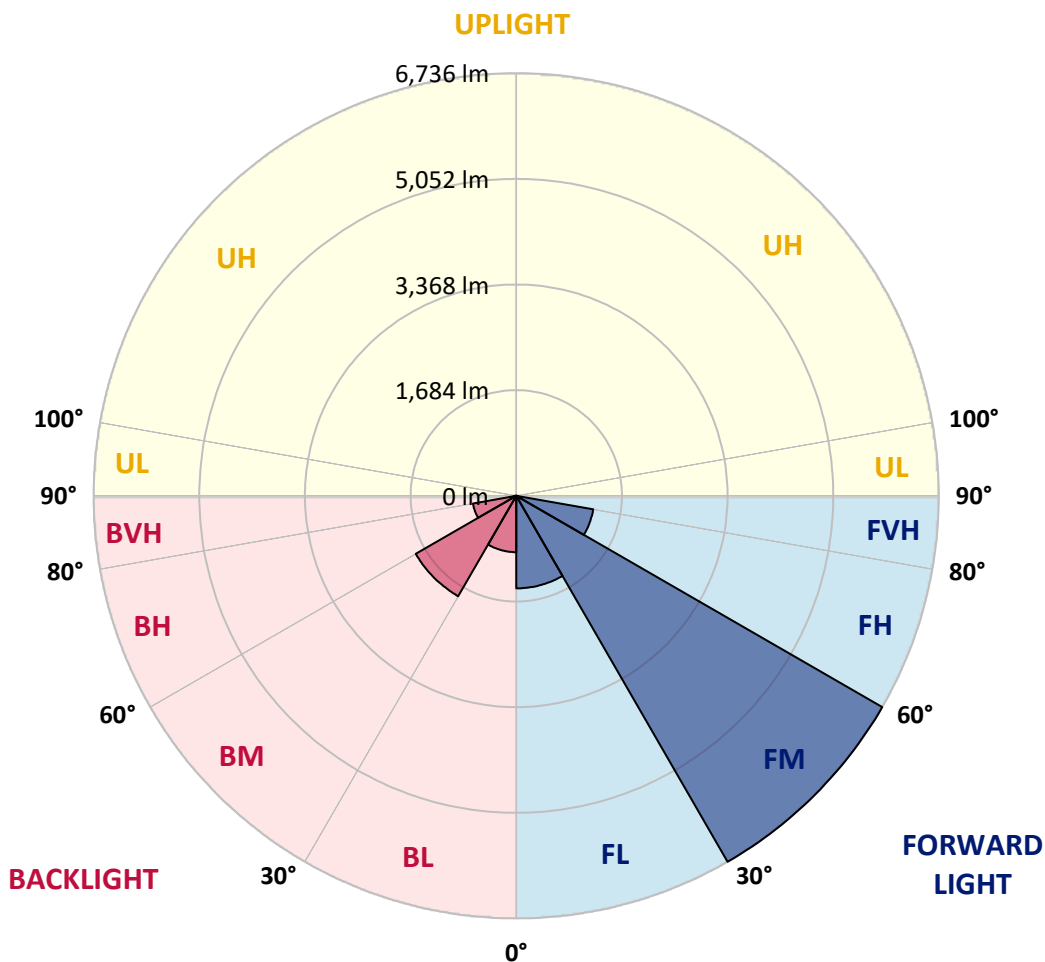


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1474.6	11.4			
FM (30°-60°)	6736.1	51.9			
FH (60°-80°)	1246.0	9.6			G1/1800
FVH (80°-90°)	30.5	0.2			G1/100
BL (0°-30°)	897.8	6.9	B2/1000		
BM (30°-60°)	1848.8	14.2	B2/2500		
BH (60°-80°)	702.0	5.4	B2/1000		G2/1000
BVH (80°-90°)	40.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8
2.5°	2735.1	2691.4	2688.0	2676.2	2683.0	2652.7	2620.7	2578.7	2534.9	2561.9	2497.9
5°	2926.9	2868.0	2891.5	2851.2	2856.2	2815.8	2750.2	2701.5	2647.6	2615.7	2570.3
7.5°	2994.2	2999.2	3016.0	3009.3	2975.6	2975.6	2931.9	2846.1	2751.9	2733.4	2657.7
10°	3085.0	3086.7	3068.2	3073.2	3120.3	3098.4	3059.8	3022.7	2901.6	2879.8	2745.2
12.5°	3116.9	3086.7	3116.9	3143.9	3199.4	3229.6	3221.2	3194.3	3064.8	3049.7	2852.9
15°	3122.0	3103.5	3128.7	3189.3	3238.1	3365.9	3429.8	3411.3	3239.7	3241.4	2974.0
17.5°	3098.4	3123.7	3133.8	3185.9	3298.6	3418.0	3603.1	3628.3	3487.0	3465.1	3127.0
20°	3130.4	3111.9	3125.4	3172.5	3322.2	3508.9	3751.1	3917.6	3719.1	3704.0	3285.2
22.5°	3253.2	3228.0	3224.6	3254.9	3362.5	3556.0	3907.5	4207.0	4001.7	4010.1	3482.0
25°	3349.1	3362.5	3350.8	3349.1	3416.4	3626.6	4114.4	4551.8	4385.3	4336.5	3714.1
27.5°	3513.9	3545.9	3522.3	3554.3	3539.2	3732.6	4262.5	4933.6	4799.1	4733.5	3924.4
30°	3742.7	3759.5	3737.6	3737.6	3692.2	3880.6	4397.0	5332.3	5276.8	5187.6	4171.6
32.5°	4043.8	4069.0	4025.3	4000.1	3993.3	4101.0	4639.3	5725.9	5820.1	5744.4	4499.6
35°	4442.4	4427.3	4375.2	4351.6	4260.8	4439.1	4999.2	6178.4	6425.7	6291.1	4896.6
37.5°	4794.0	4770.5	4767.1	4635.9	4657.8	4804.1	5305.4	6521.5	7012.7	6974.0	5315.5
40°	5122.0	5143.9	5179.2	5105.2	5071.6	5233.0	5662.0	6783.9	7468.6	7453.4	5638.4
42.5°	5473.6	5453.4	5515.6	5453.4	5402.9	5631.7	6048.9	6965.6	7868.9	7744.4	5976.5
45°	5983.3	5919.3	5941.2	5946.3	5909.2	5993.3	6208.7	7096.8	8149.8	8136.4	6223.8
47.5°	6408.8	6410.5	6373.5	6344.9	6232.2	6316.3	6387.0	7179.2	8472.8	8450.9	6319.7
50°	6566.9	6545.1	6652.7	6715.0	6721.7	6550.1	6526.6	7224.7	8642.7	8546.8	6415.6
52.5°	5998.4	6018.6	6188.5	6558.5	6772.2	6790.7	6689.7	7318.9	8711.6	8691.5	6492.9
55°	4827.6	4925.2	5204.4	5631.7	6138.0	6694.8	6866.4	7416.4	8748.6	8731.8	6836.1
56°	4244.0	4319.7	4683.0	5017.7	5653.6	6346.6	6755.3	7520.7	8777.2	8856.3	6916.8
57.5°	3416.4	3503.8	3764.6	4144.7	4894.9	5683.8	6449.2	7392.9	8666.2	8696.5	6975.7
60°	2136.3	2144.7	2457.6	2708.2	3236.4	4006.8	4921.8	6432.4	8020.3	7976.6	6265.9
62.5°	1401.2	1402.9	1687.2	1892.4	2132.9	2309.5	2896.6	4265.8	5917.7	5840.3	4460.9
65°	984.0	1005.9	1226.3	1500.4	1598.0	1505.5	1487.0	2249.0	3305.3	3194.3	2397.0
67.5°	719.9	721.6	916.7	1211.1	1352.4	1145.5	930.2	1098.4	1308.7	1305.3	1110.2
70°	476.0	496.2	645.9	905.0	1066.5	920.1	760.3	785.5	832.6	832.6	825.9
72.5°	277.5	296.1	395.3	573.6	598.8	575.3	602.2	672.8	703.1	701.4	693.0
75°	158.1	166.5	188.4	238.9	297.7	351.6	442.4	509.7	540.0	558.5	536.6
77.5°	92.5	97.6	111.0	136.3	154.8	190.1	240.5	287.6	328.0	323.0	326.3
80°	48.8	48.8	62.2	80.7	107.7	134.6	159.8	186.7	208.6	213.6	218.7
82.5°	28.6	30.3	40.4	58.9	77.4	95.9	122.8	141.3	161.5	163.2	166.5
85°	15.1	16.8	25.2	38.7	52.1	58.9	60.6	57.2	62.2	58.9	67.3
87.5°	5.0	5.0	8.4	6.7	6.7	8.4	10.1	10.1	13.5	13.5	13.5
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°	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8
2.5°	2496.2	2496.2	2467.7	2413.8	2405.4	2383.5	2363.4	2361.7	2346.5	2333.1	2326.4
5°	2543.3	2491.2	2449.1	2400.4	2343.2	2316.3	2286.0	2252.3	2238.9	2252.3	2250.7
7.5°	2597.2	2553.4	2427.3	2336.4	2270.8	2243.9	2210.3	2175.0	2178.3	2178.3	2154.8
10°	2649.3	2590.4	2388.6	2272.5	2176.6	2156.5	2138.0	2151.4	2168.2	2171.6	2156.5
12.5°	2736.8	2603.9	2370.1	2208.6	2148.1	2104.3	2116.1	2153.1	2188.4	2178.3	2190.1
15°	2802.4	2615.7	2286.0	2143.0	2067.3	2087.5	2129.5	2154.8	2213.7	2206.9	2218.7
17.5°	2866.3	2622.4	2203.6	2055.5	2023.6	2079.1	2111.0	2183.4	2201.9	2242.2	2257.4
20°	2997.5	2635.9	2119.5	2001.7	1991.6	2055.5	2111.0	2144.7	2185.1	2220.4	2220.4
22.5°	3064.8	2629.1	2063.9	1931.1	1963.0	2003.4	2053.9	2111.0	2111.0	2144.7	2146.4
25°	3148.9	2602.2	1976.5	1897.4	1921.0	1959.7	2016.8	1996.7	2018.5	2018.5	2045.4
27.5°	3244.8	2545.0	1900.8	1836.9	1884.0	1926.0	1934.4	1921.0	1895.7	1892.4	1882.3
30°	3322.2	2474.4	1845.3	1816.7	1855.4	1878.9	1852.0	1823.4	1779.7	1776.3	1752.8
32.5°	3428.1	2386.9	1776.3	1766.2	1809.9	1811.6	1803.2	1759.5	1695.6	1668.7	1641.7
35°	3606.4	2336.4	1724.2	1739.3	1752.8	1747.7	1732.6	1685.5	1621.6	1609.8	1599.7
37.5°	3737.6	2299.4	1670.3	1688.8	1700.6	1707.3	1661.9	1609.8	1611.5	1587.9	1581.2
40°	3885.7	2275.9	1626.6	1635.0	1636.7	1658.6	1603.0	1577.8	1589.6	1574.5	1584.5
42.5°	4075.7	2282.6	1581.2	1574.5	1606.4	1598.0	1571.1	1537.4	1544.2	1498.8	1505.5
45°	4176.7	2328.0	1554.3	1524.0	1559.3	1557.6	1522.3	1490.3	1450.0	1362.5	1365.9
47.5°	4244.0	2339.8	1490.3	1470.2	1507.2	1529.0	1488.7	1414.7	1357.5	1295.2	1280.1
50°	4312.9	2361.7	1460.1	1418.0	1433.2	1485.3	1434.8	1364.2	1308.7	1253.2	1261.6
52.5°	4373.5	2403.7	1401.2	1339.0	1365.9	1423.1	1396.1	1310.4	1249.8	1204.4	1190.9
55°	4642.6	2497.9	1302.0	1221.2	1285.1	1357.5	1342.3	1238.0	1172.4	1148.9	1145.5
56°	4684.7	2501.3	1249.8	1180.8	1239.7	1335.6	1317.1	1206.1	1147.2	1110.2	1111.9
57.5°	4691.4	2460.9	1175.8	1143.8	1194.3	1303.6	1280.1	1180.8	1100.1	1066.5	1056.4
60°	4127.9	1921.0	1083.3	1063.1	1122.0	1206.1	1197.7	1111.9	1021.0	982.4	1000.9
62.5°	2814.2	1407.9	1010.9	1007.6	1037.9	1120.3	1098.4	1021.0	945.3	920.1	908.3
65°	1638.4	1068.1	940.3	926.8	952.1	995.8	1010.9	930.2	851.1	834.3	829.3
67.5°	967.2	883.1	849.5	827.6	819.2	846.1	857.9	810.8	731.7	708.2	728.4
70°	809.1	785.5	787.2	750.2	730.0	711.5	701.4	659.4	593.8	563.5	555.1
72.5°	698.1	688.0	681.3	647.6	629.1	587.1	543.3	501.3	452.5	427.3	428.9
75°	533.2	529.9	533.2	516.4	484.4	450.8	410.4	356.6	319.6	287.6	294.4
77.5°	317.9	328.0	333.1	326.3	312.9	282.6	257.4	222.0	186.7	161.5	158.1
80°	218.7	227.1	235.5	227.1	213.6	191.8	164.8	137.9	112.7	99.2	95.9
82.5°	166.5	174.9	180.0	171.6	154.8	131.2	112.7	94.2	74.0	60.6	57.2
85°	60.6	69.0	67.3	80.7	87.5	84.1	72.3	55.5	42.1	30.3	28.6
87.5°	16.8	15.1	16.8	16.8	16.8	15.1	13.5	13.5	13.5	8.4	6.7
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)