

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: P528440

Luminaire Tested: **GALN-SA3C-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-735-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16571 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

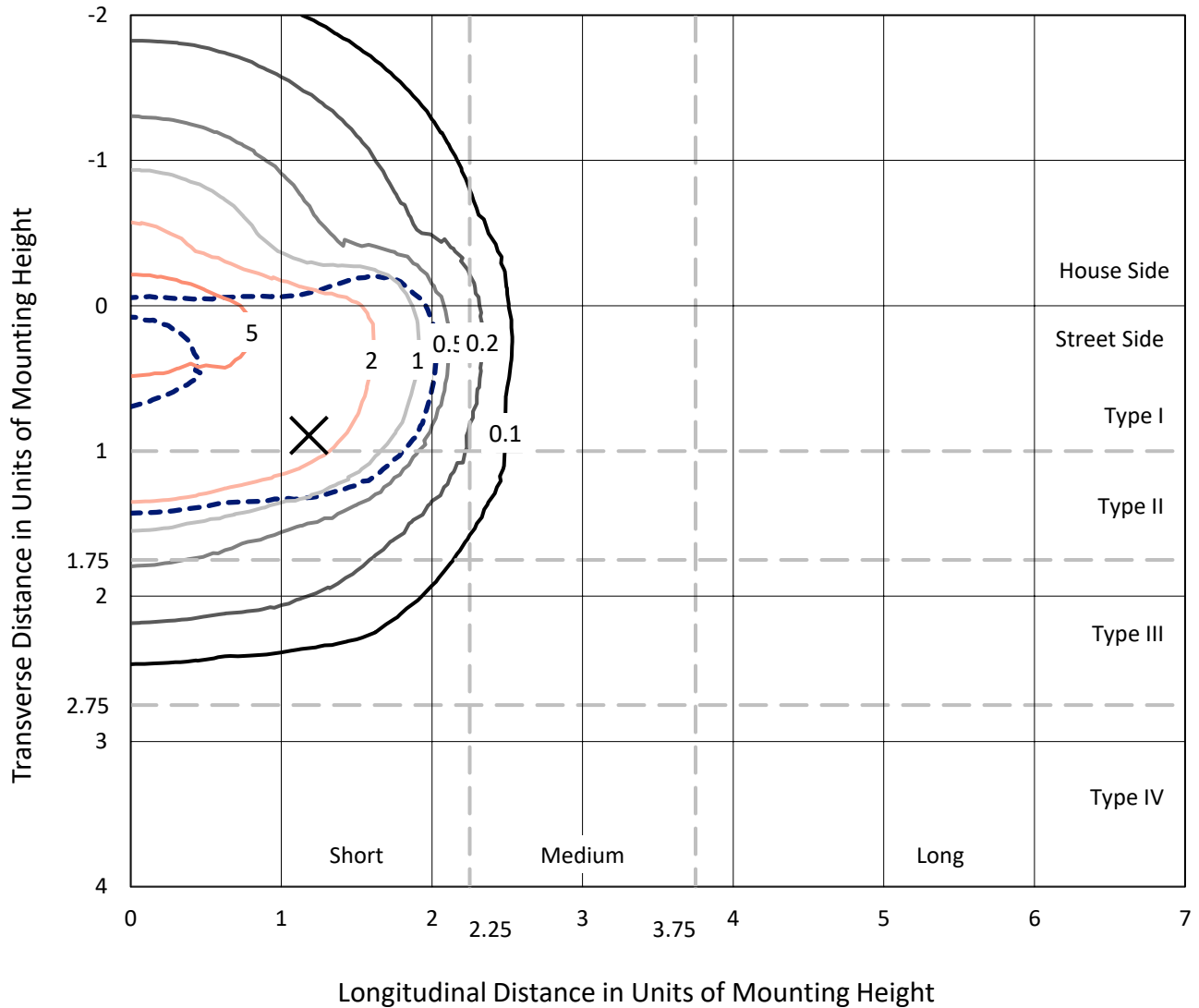
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

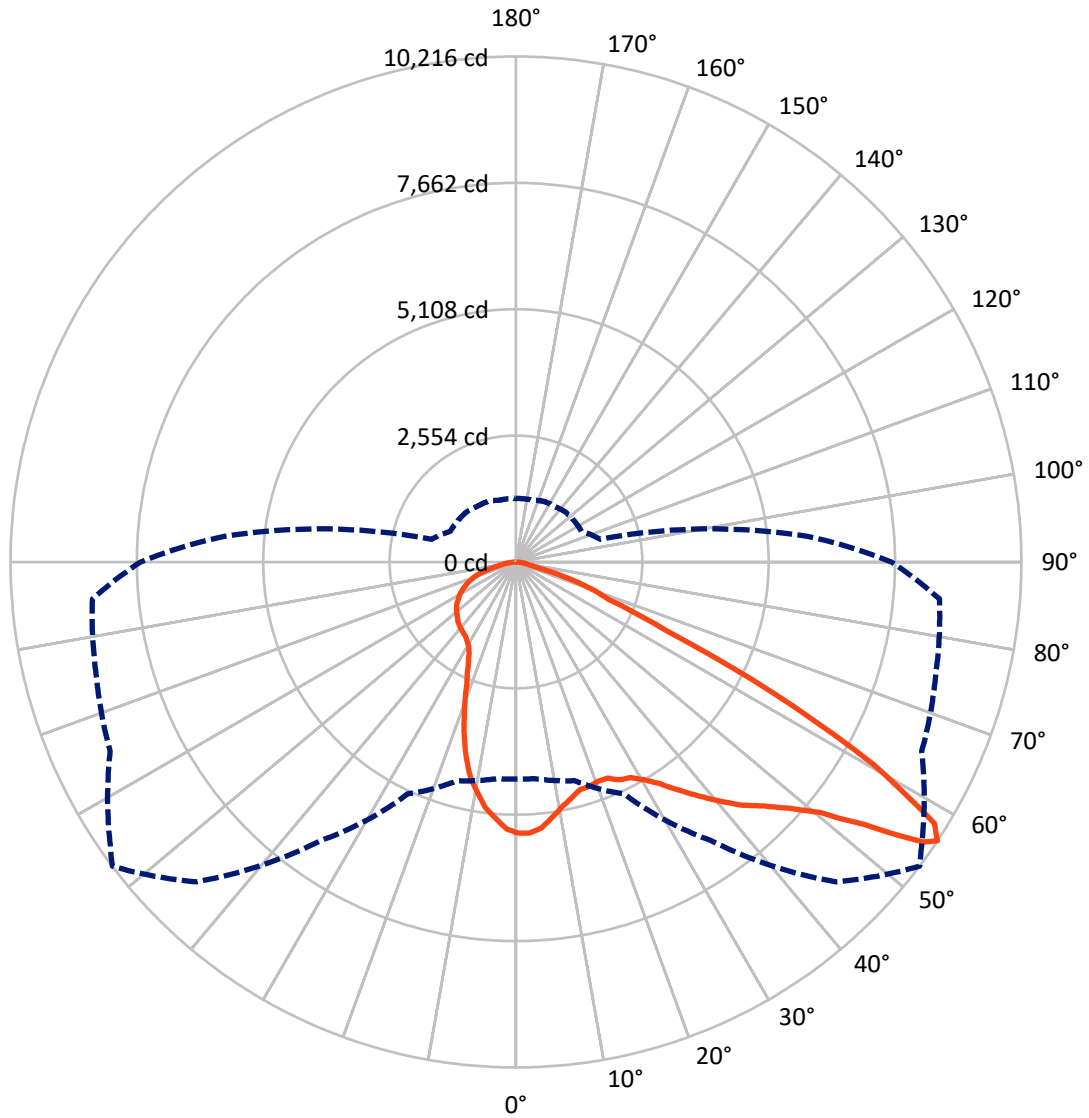
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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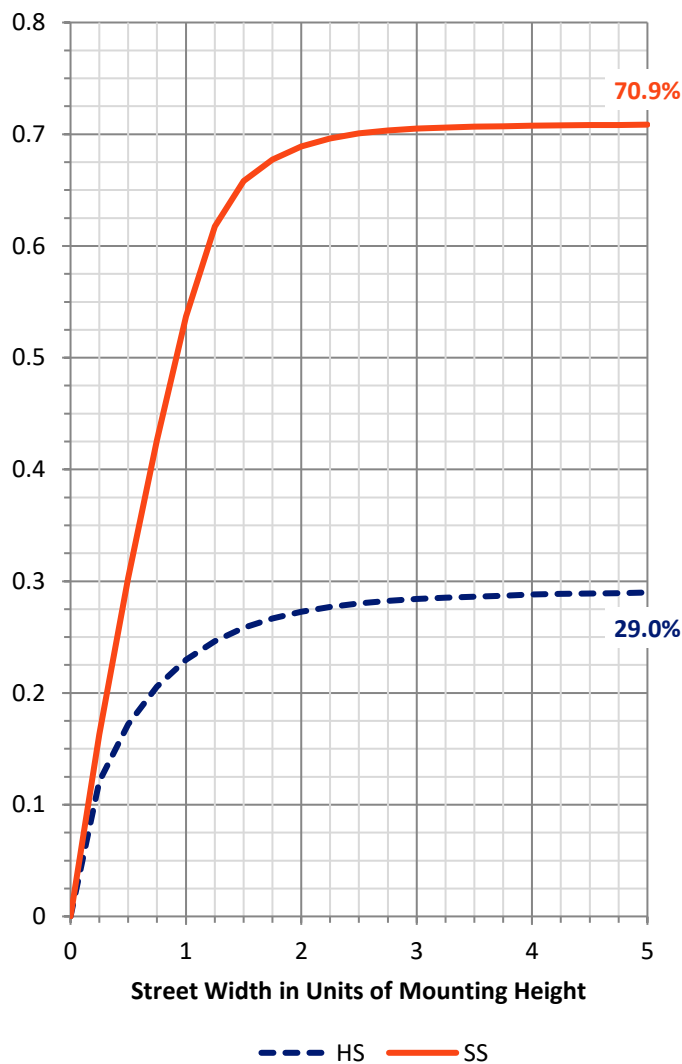
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4835.8	0.0	4835.8
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	11735.2	0.0	11735.2
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	16571.0	0.0	16571.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	485.3	2.9
10°-20°	1212.2	7.3
20°-30°	1787.5	10.8
30°-40°	2553.9	15.4
40°-50°	3515.1	21.2
50°-60°	4154.0	25.1
60°-70°	2213.8	13.4
70°-80°	561.6	3.4
80°-90°	87.6	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°	16571.0	100.0
0°-180°	16571.0	100.0



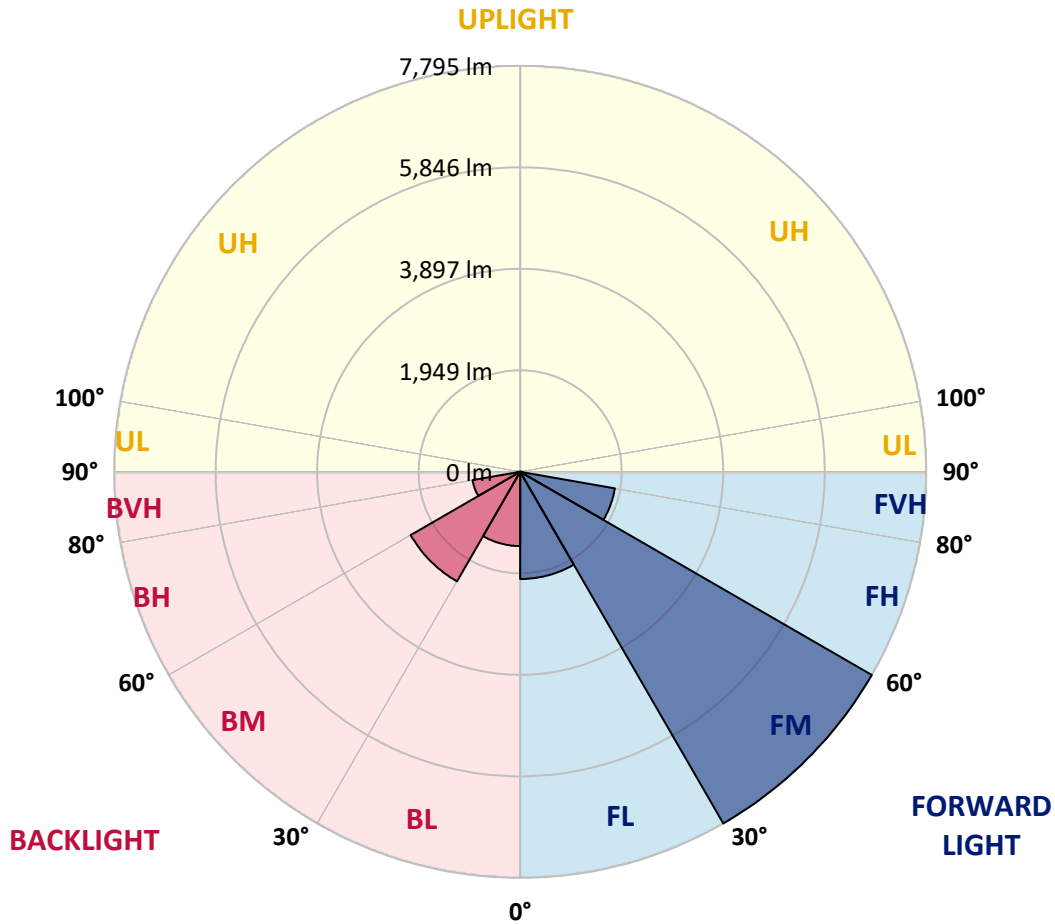
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2058.7	12.4			
FM (30°-60°)	7794.7	47.0			
FH (60°-80°)	1846.6	11.1			G2/5000
FVH (80°-90°)	35.2	0.2			G1/100
BL (0°-30°)	1426.3	8.6	B3/2500		
BM (30°-60°)	2428.4	14.7	B2/2500		
BH (60°-80°)	928.8	5.6	B2/1000		G2/1000
BVH (80°-90°)	52.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5482.3	5482.3	5482.3	5482.3	5482.3	5482.3	5482.3	5482.3	5482.3	5482.3	5482.3
2.5°	5414.3	5367.5	5395.2	5384.6	5471.7	5497.2	5484.5	5495.1	5544.0	5520.6	5471.7
5°	5059.3	5125.2	5138.0	5169.9	5220.9	5320.8	5399.4	5420.7	5444.1	5552.5	5541.9
7.5°	4736.2	4780.8	4757.5	4851.0	4961.5	5123.1	5218.7	5235.8	5450.5	5510.0	5554.6
10°	4532.1	4487.5	4593.8	4619.3	4744.7	4929.6	5044.4	5114.6	5310.2	5546.1	5573.7
12.5°	4342.9	4328.1	4391.8	4464.1	4604.4	4795.7	4912.6	4940.3	5242.1	5490.8	5620.5
15°	4202.6	4185.6	4249.4	4302.5	4466.2	4636.3	4785.1	4863.7	5167.7	5459.0	5580.1
17.5°	4092.1	4090.0	4126.1	4221.8	4389.7	4532.1	4772.3	4776.6	5129.5	5507.8	5614.1
20°	4085.7	4083.6	4090.0	4196.3	4349.3	4523.6	4731.9	4770.2	5129.5	5473.8	5616.3
22.5°	4138.9	4104.8	4143.1	4211.1	4321.7	4538.5	4746.8	4831.9	5252.8	5641.8	5711.9
25°	4223.9	4232.4	4253.6	4277.0	4340.8	4572.5	4878.6	4948.8	5397.3	5786.3	5843.7
27.5°	4379.1	4374.8	4383.3	4396.1	4451.3	4604.4	4931.8	5112.5	5699.2	6043.5	5986.1
30°	4606.5	4591.6	4625.7	4670.3	4619.3	4706.4	5108.2	5244.3	5979.8	6302.9	6145.6
32.5°	4812.7	4868.0	4931.8	4950.9	4889.3	4906.3	5342.0	5480.2	6213.6	6621.7	6341.1
35°	5069.9	5114.6	5199.6	5259.1	5248.5	5197.5	5660.9	5843.7	6551.6	6855.6	6547.3
37.5°	5320.8	5373.9	5514.2	5690.7	5592.9	5569.5	6001.0	6152.0	6655.8	6981.0	6698.3
40°	5724.7	5722.6	5964.9	6056.3	6143.5	6103.1	6353.9	6404.9	6711.0	6953.4	6702.5
42.5°	6198.7	6169.0	6415.5	6558.0	6670.6	6674.9	6721.7	6704.7	6736.5	6813.1	6657.9
45°	6649.4	6713.2	6961.9	7217.0	7329.6	7342.4	7032.0	7000.1	6781.2	6772.7	6572.9
47.5°	7200.0	7214.8	7418.9	7754.8	8016.2	7927.0	7433.8	7363.6	6976.8	7042.6	6715.3
50°	7231.8	7342.4	7525.2	7920.6	8724.1	8700.7	7954.6	7822.8	7291.4	7425.3	7112.8
52.5°	6564.4	6538.8	6755.7	7401.9	8671.0	9470.3	8817.7	8503.0	7967.4	7865.3	7756.9
55°	5001.9	5061.4	5252.8	5905.4	7529.4	9480.9	9993.2	9736.0	8690.1	8515.8	8390.4
56°	4387.6	4396.1	4576.8	5172.0	6870.5	9142.9	10216.4	10008.1	9049.4	8783.6	8592.3
57.5°	3637.2	3588.3	3681.8	4007.1	5799.1	8428.6	9971.9	10176.0	9470.3	9072.8	8807.0
60°	2863.4	2852.8	2814.5	2874.0	3664.8	6349.7	8301.1	8760.3	9427.8	8800.7	8435.0
62.5°	2338.3	2285.2	2361.7	2446.8	2546.7	3939.0	5833.1	6103.1	7484.8	7025.6	6336.9
65°	1813.3	1787.8	1883.4	2159.8	2219.3	2502.0	3322.6	3530.9	4419.5	4340.8	3822.1
67.5°	1247.8	1252.1	1335.0	1755.9	2057.7	2032.2	2034.4	2142.8	2306.5	1713.4	1492.3
70°	790.8	788.7	833.3	1130.9	1656.0	1673.0	1587.9	1556.1	1475.3	892.8	946.0
72.5°	508.1	493.2	516.6	625.0	856.7	990.6	1020.4	1039.5	854.6	701.5	761.0
75°	287.0	272.1	263.6	291.2	338.0	391.1	429.4	442.2	495.3	531.4	563.3
77.5°	87.2	78.7	95.7	127.5	167.9	225.3	274.2	282.7	333.7	376.3	408.1
80°	38.3	42.5	59.5	85.0	119.0	159.4	193.4	206.2	240.2	272.1	280.6
82.5°	23.4	25.5	40.4	57.4	82.9	112.7	138.2	142.4	176.4	201.9	208.3
85°	8.5	10.6	21.3	34.0	53.1	72.3	72.3	78.7	72.3	72.3	78.7
87.5°	0.0	0.0	2.1	4.3	4.3	6.4	8.5	8.5	10.6	12.8	14.9
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°	5482.3	5482.3	5482.3	5482.3	5482.3	5482.3	5482.3	5482.3	5482.3	5482.3	5482.3
2.5°	5497.2	5486.6	5469.6	5407.9	5401.6	5382.4	5276.1	5259.1	5276.1	5225.1	5229.4
5°	5486.6	5518.5	5390.9	5329.3	5214.5	5131.6	5035.9	4987.0	4899.9	4844.6	4906.3
7.5°	5533.4	5520.6	5361.2	5227.2	5055.1	4844.6	4676.7	4581.0	4428.0	4385.4	4417.3
10°	5516.4	5448.3	5261.3	5084.8	4759.6	4574.6	4302.5	4038.9	3894.4	3820.0	3809.4
12.5°	5493.0	5473.8	5161.3	4857.4	4515.1	4126.1	3743.5	3494.8	3258.8	3156.8	3171.6
15°	5520.6	5359.0	4974.3	4589.5	4134.6	3624.4	3212.0	2891.0	2727.4	2661.5	2661.5
17.5°	5507.8	5303.8	4885.0	4289.8	3713.7	3110.0	2657.2	2463.8	2395.7	2395.7	2414.9
20°	5514.2	5339.9	4704.3	3990.1	3216.3	2618.9	2289.4	2219.3	2249.1	2259.7	2270.3
22.5°	5550.4	5220.9	4527.9	3660.6	2755.0	2240.6	2079.0	2081.1	2134.3	2191.7	2181.0
25°	5595.0	5174.1	4313.2	3333.2	2402.1	2055.6	2004.6	1998.2	2038.6	2068.4	2072.6
27.5°	5556.7	5093.3	4094.2	2925.0	2113.0	1932.3	1921.7	1925.9	1938.7	1998.2	1979.1
30°	5682.2	5116.7	3820.0	2582.8	1953.6	1891.9	1879.2	1872.8	1891.9	1908.9	1894.1
32.5°	5837.3	5033.8	3615.9	2253.3	1874.9	1862.2	1836.7	1828.2	1838.8	1821.8	1830.3
35°	5905.4	5018.9	3350.2	2017.3	1813.3	1802.6	1787.8	1785.6	1787.8	1772.9	1760.1
37.5°	5943.6	5089.1	3046.2	1908.9	1775.0	1785.6	1751.6	1747.4	1709.1	1717.6	1724.0
40°	6009.5	4980.7	2799.6	1804.8	1751.6	1730.4	1700.6	1694.2	1668.7	1653.8	1668.7
42.5°	5913.9	4948.8	2557.3	1760.1	1717.6	1694.2	1673.0	1636.8	1628.3	1615.6	1607.1
45°	5837.3	4766.0	2340.5	1704.9	1677.2	1664.5	1624.1	1585.8	1553.9	1566.7	1547.6
47.5°	5894.7	4702.2	2125.8	1658.1	1622.0	1607.1	1566.7	1536.9	1505.0	1490.2	1485.9
50°	6124.3	4821.2	1945.1	1624.1	1575.2	1566.7	1513.5	1479.5	1449.8	1439.1	1443.4
52.5°	6672.8	5146.5	1821.8	1553.9	1530.5	1492.3	1462.5	1420.0	1400.9	1366.9	1388.1
55°	7367.9	5675.8	1789.9	1488.0	1475.3	1441.3	1400.9	1369.0	1332.9	1305.2	1298.8
56°	7591.1	5928.7	1764.4	1462.5	1441.3	1422.1	1369.0	1349.9	1292.5	1286.1	1281.8
57.5°	7771.8	6152.0	1768.6	1413.6	1392.4	1375.4	1343.5	1296.7	1258.5	1235.1	1245.7
60°	7363.6	5758.7	1687.9	1339.2	1335.0	1303.1	1258.5	1237.2	1190.4	1162.8	1156.4
62.5°	5473.8	3909.3	1369.0	1243.6	1241.4	1207.4	1156.4	1133.0	1124.5	1086.3	1086.3
65°	3152.5	2451.0	1184.0	1164.9	1147.9	1113.9	1062.9	1043.7	1022.5	1009.7	999.1
67.5°	1345.6	1271.2	1075.6	1073.5	1054.4	1011.9	960.8	931.1	903.4	877.9	890.7
70°	975.7	990.6	971.5	960.8	937.5	884.3	839.7	803.5	761.0	744.0	756.8
72.5°	773.8	805.7	833.3	835.4	807.8	746.1	697.2	648.4	601.6	578.2	588.8
75°	586.7	608.0	635.6	642.0	601.6	559.1	512.3	461.3	425.2	397.5	401.8
77.5°	423.0	418.8	444.3	440.0	420.9	391.1	348.6	301.9	261.5	236.0	238.1
80°	289.1	295.5	310.4	308.2	284.9	265.7	233.8	195.6	165.8	144.6	140.3
82.5°	201.9	212.6	225.3	214.7	195.6	176.4	153.1	125.4	102.0	85.0	80.8
85°	72.3	82.9	95.7	102.0	108.4	104.2	87.2	70.2	51.0	42.5	40.4
87.5°	14.9	17.0	19.1	19.1	19.1	17.0	14.9	14.9	12.8	6.4	6.4
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)