

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: P651285

Luminaire Tested: **GALN-SA3D-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651285  
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-SA3D-840-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 1200mA 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: 16461.7 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

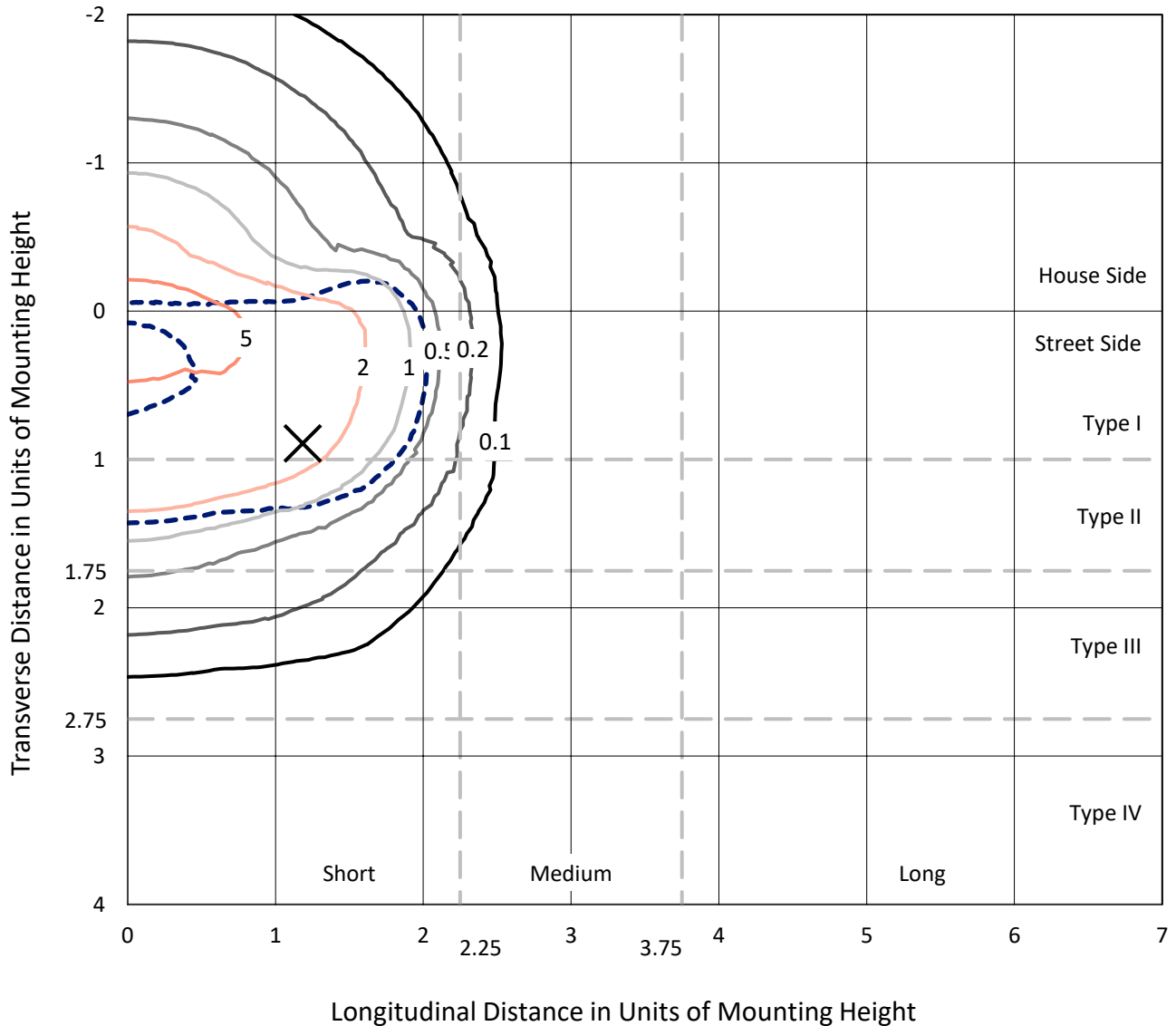
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

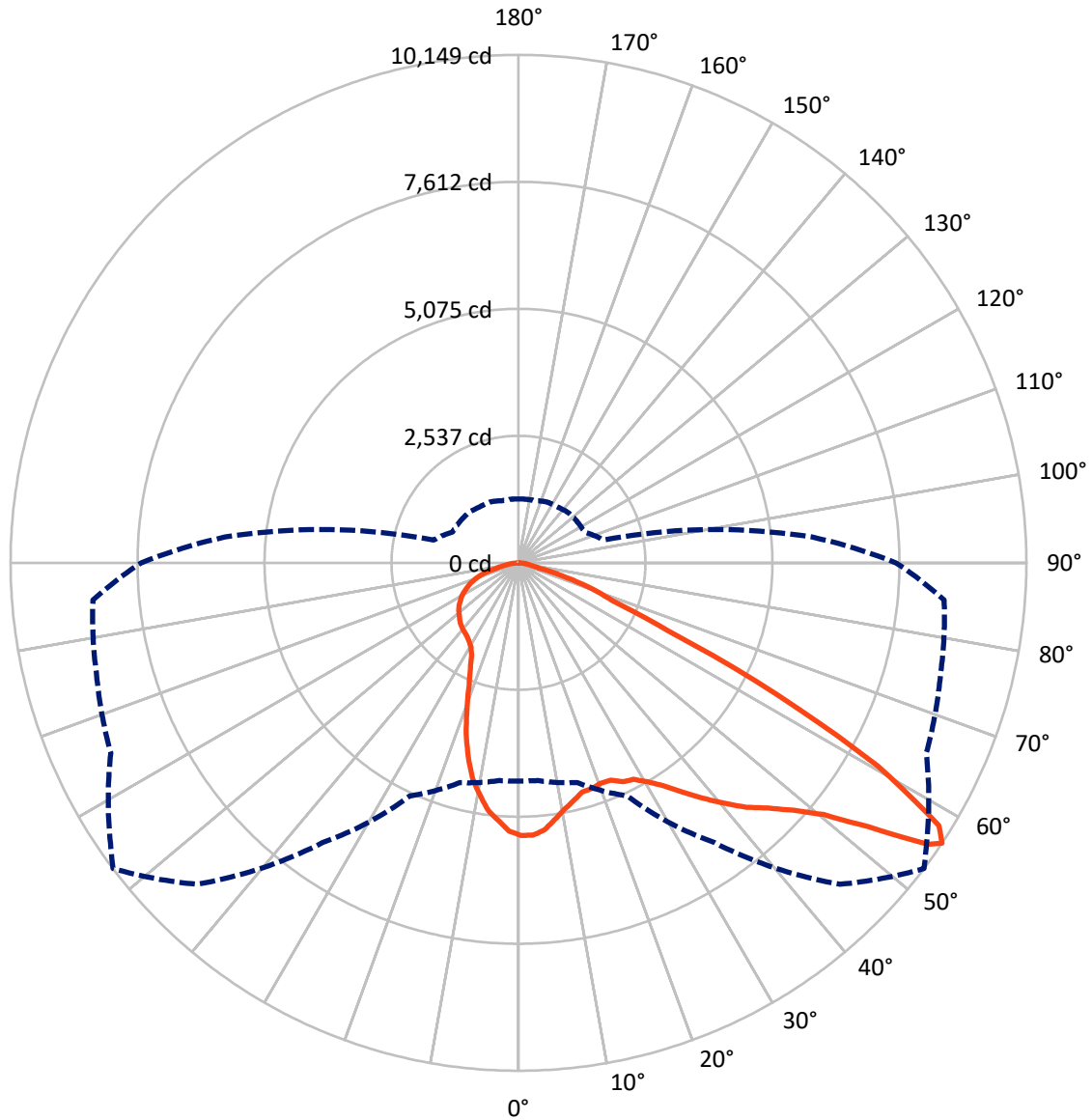
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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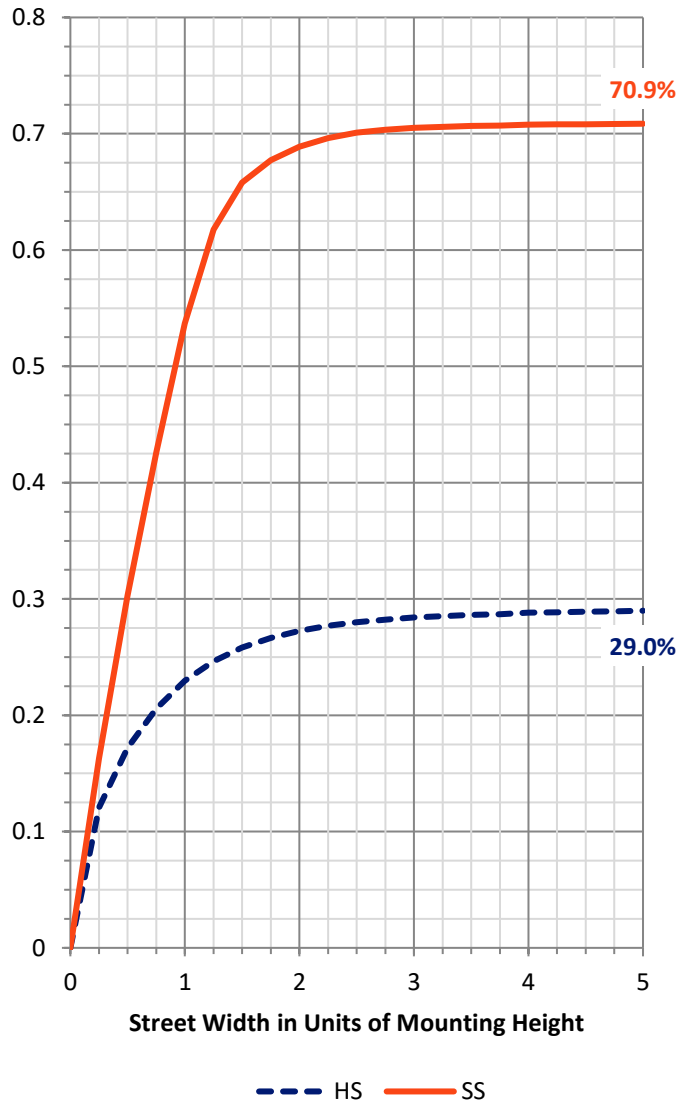
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4803.9	0.0	4803.9
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	11657.8	0.0	11657.8
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	16461.7	0.0	16461.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	482.1	2.9
10°-20°	1204.2	7.3
20°-30°	1775.7	10.8
30°-40°	2537.1	15.4
40°-50°	3492.0	21.2
50°-60°	4126.6	25.1
60°-70°	2199.2	13.4
70°-80°	557.9	3.4
80°-90°	87.0	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°	16461.7	100.0
0°-180°	16461.7	100.0

**Coefficient of Utilization**

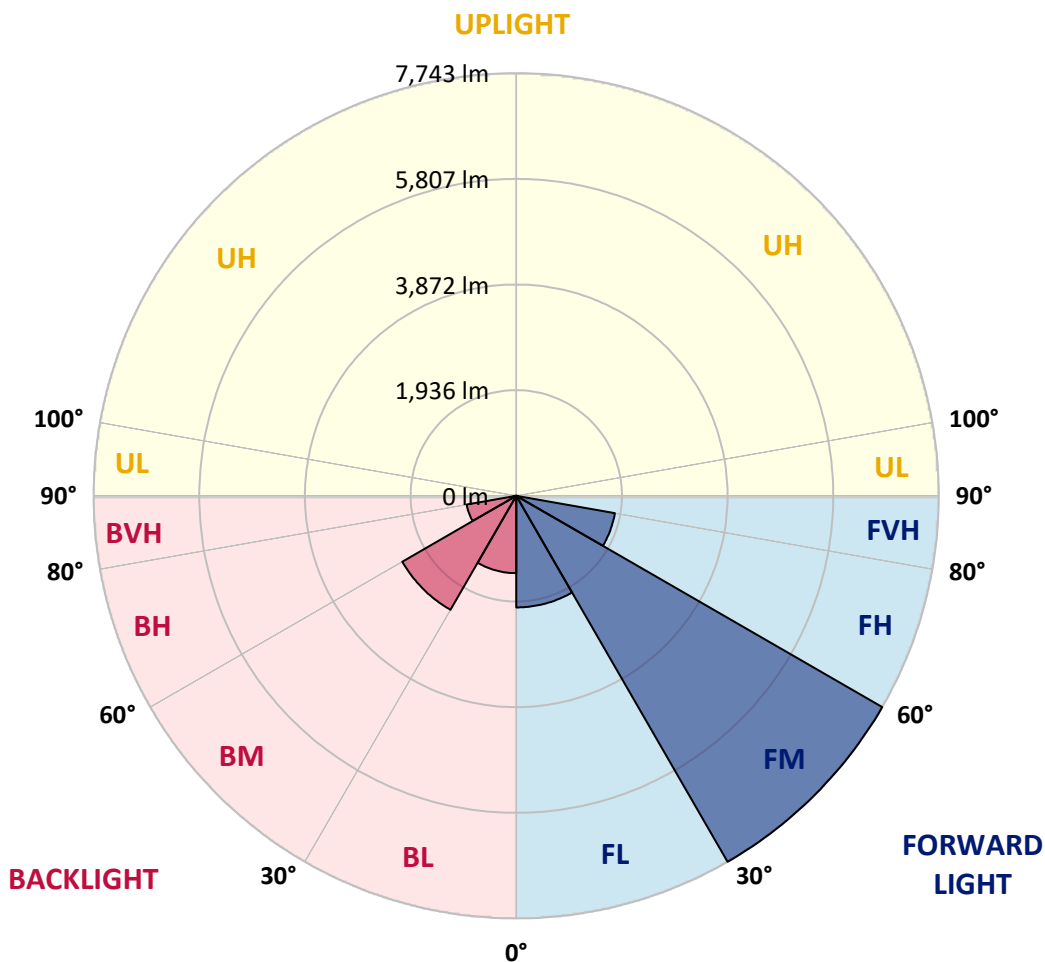


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2045.1	12.4			
FM (30°-60°)	7743.3	47.0			
FH (60°-80°)	1834.5	11.1			G2/5000
FVH (80°-90°)	35.0	0.2			G1/100
BL (0°-30°)	1416.9	8.6	B3/2500		
BM (30°-60°)	2412.4	14.7	B2/2500		
BH (60°-80°)	922.7	5.6	B2/1000		G2/1000
BVH (80°-90°)	52.0	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°	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2
2.5°	5378.6	5332.2	5359.6	5349.0	5435.6	5460.9	5448.3	5458.8	5507.5	5484.2	5435.6
5°	5026.0	5091.4	5104.1	5135.7	5186.4	5285.7	5363.8	5384.9	5408.2	5515.9	5505.4
7.5°	4705.0	4749.3	4726.1	4819.0	4928.8	5089.3	5184.3	5201.2	5414.5	5473.6	5518.0
10°	4502.2	4457.9	4563.5	4588.8	4713.4	4897.1	5011.2	5080.8	5275.2	5509.6	5537.0
12.5°	4314.3	4299.5	4362.9	4434.7	4574.0	4764.1	4880.2	4907.7	5207.6	5454.6	5583.5
15°	4174.9	4158.0	4221.4	4274.1	4436.8	4605.7	4753.5	4831.7	5133.6	5422.9	5543.4
17.5°	4065.1	4063.0	4098.9	4193.9	4360.8	4502.2	4740.9	4745.1	5095.6	5471.5	5577.1
20°	4058.8	4056.6	4063.0	4168.6	4320.6	4493.8	4700.8	4738.8	5095.6	5437.7	5579.2
22.5°	4111.6	4077.8	4115.8	4183.4	4293.1	4508.6	4715.5	4800.0	5218.2	5604.6	5674.2
25°	4196.0	4204.5	4225.6	4248.8	4312.1	4542.3	4846.4	4916.1	5361.7	5748.2	5805.2
27.5°	4350.2	4346.0	4354.4	4367.1	4422.0	4574.0	4899.2	5078.7	5661.6	6003.7	5946.7
30°	4576.1	4561.3	4595.1	4639.5	4588.8	4675.4	5074.5	5209.7	5940.3	6261.3	6105.1
32.5°	4781.0	4835.9	4899.2	4918.3	4857.0	4873.9	5306.8	5444.0	6172.6	6578.0	6299.3
35°	5036.5	5080.8	5165.3	5224.5	5213.9	5163.2	5623.6	5805.2	6508.4	6810.4	6504.2
37.5°	5285.7	5338.5	5477.9	5653.1	5556.0	5532.8	5961.4	6111.4	6611.9	6935.0	6654.1
40°	5686.9	5684.8	5925.5	6016.3	6103.0	6062.9	6312.0	6362.7	6666.8	6907.6	6658.4
42.5°	6157.9	6128.3	6373.3	6514.7	6626.7	6630.9	6677.4	6660.5	6692.1	6768.1	6614.0
45°	6605.6	6668.9	6916.0	7169.4	7281.3	7294.0	6985.7	6954.0	6736.5	6728.0	6529.5
47.5°	7152.5	7167.3	7370.0	7703.6	7963.4	7874.7	7384.7	7315.1	6930.8	6996.2	6671.0
50°	7184.2	7294.0	7475.6	7868.4	8666.6	8643.4	7902.1	7771.3	7243.3	7376.3	7065.9
52.5°	6521.0	6495.7	6711.1	7353.1	8613.8	9407.8	8759.5	8447.0	7914.8	7813.5	7705.7
55°	4969.0	5028.1	5218.2	5866.4	7479.8	9418.4	9927.3	9671.8	8632.8	8459.6	8335.1
56°	4358.7	4367.1	4546.6	5137.8	6825.1	9082.6	10149.0	9942.1	8989.7	8725.7	8535.6
57.5°	3613.2	3564.7	3657.5	3980.6	5760.8	8373.1	9906.2	10108.9	9407.8	9012.9	8748.9
60°	2844.5	2834.0	2796.0	2855.1	3640.7	6307.8	8246.3	8702.5	9365.6	8742.6	8379.4
62.5°	2322.9	2270.1	2346.1	2430.7	2529.9	3913.1	5794.7	6062.9	7435.4	6979.3	6295.1
65°	1801.3	1775.9	1871.0	2145.6	2204.7	2485.5	3300.7	3507.6	4390.4	4312.1	3796.9
67.5°	1239.6	1243.8	1326.2	1744.3	2044.1	2018.8	2020.9	2128.7	2291.2	1702.1	1482.4
70°	785.6	783.5	827.8	1123.4	1645.1	1662.0	1577.5	1545.8	1465.5	886.9	939.7
72.5°	504.7	490.0	513.2	620.8	851.0	984.1	1013.7	1032.7	848.9	696.9	756.0
75°	285.1	270.3	261.9	289.3	335.7	388.5	426.6	439.3	492.1	527.9	559.6
77.5°	86.6	78.1	95.0	126.7	166.9	223.9	272.4	280.9	331.5	373.7	405.4
80°	38.0	42.2	59.1	84.4	118.2	158.4	192.2	204.9	238.6	270.3	278.8
82.5°	23.2	25.3	40.1	57.0	82.3	111.9	137.3	141.5	175.3	200.6	207.0
85°	8.4	10.6	21.1	33.8	52.8	71.8	71.8	78.1	71.8	71.8	78.1
87.5°	0.0	0.0	2.1	4.2	4.2	6.3	8.4	8.4	10.6	12.7	14.8
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°	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2
2.5°	5460.9	5450.4	5433.5	5372.3	5365.9	5346.9	5241.4	5224.5	5241.4	5190.7	5194.9
5°	5450.4	5482.1	5355.4	5294.2	5180.1	5097.7	5002.7	4954.2	4867.5	4812.7	4873.9
7.5°	5496.9	5484.2	5325.8	5192.8	5021.7	4812.7	4645.9	4550.8	4398.8	4356.5	4388.2
10°	5480.0	5412.4	5226.6	5051.3	4728.2	4544.5	4274.1	4012.3	3868.7	3794.8	3784.2
12.5°	5456.7	5437.7	5127.3	4825.3	4485.3	4098.9	3718.8	3471.7	3237.3	3135.9	3150.7
15°	5484.2	5323.7	4941.5	4559.2	4107.4	3600.5	3190.8	2872.0	2709.4	2643.9	2643.9
17.5°	5471.5	5268.8	4852.8	4261.5	3689.2	3089.5	2639.6	2447.5	2379.9	2379.9	2399.0
20°	5477.9	5304.7	4673.3	3963.7	3195.0	2601.6	2274.3	2204.7	2234.2	2244.8	2255.3
22.5°	5513.8	5186.4	4498.0	3636.4	2736.8	2225.8	2065.3	2067.4	2120.2	2177.2	2166.7
25°	5558.1	5140.0	4284.7	3311.2	2386.3	2042.0	1991.4	1985.0	2025.1	2054.7	2058.9
27.5°	5520.1	5059.7	4067.2	2905.7	2099.1	1919.6	1909.0	1913.3	1925.9	1985.0	1966.0
30°	5644.7	5083.0	3794.8	2565.8	1940.7	1879.5	1866.8	1860.5	1879.5	1896.4	1881.6
32.5°	5798.9	5000.6	3592.1	2238.5	1862.6	1849.9	1824.5	1816.1	1826.7	1809.7	1818.2
35°	5866.4	4985.9	3328.1	2004.0	1801.3	1790.7	1775.9	1773.8	1775.9	1761.2	1748.5
37.5°	5904.4	5055.5	3026.2	1896.4	1763.3	1773.8	1740.1	1735.8	1697.8	1706.3	1712.6
40°	5969.9	4947.9	2781.2	1792.8	1740.1	1718.9	1689.4	1683.1	1657.7	1643.0	1657.7
42.5°	5874.9	4916.1	2540.4	1748.5	1706.3	1683.1	1662.0	1626.1	1617.6	1605.0	1596.5
45°	5798.9	4734.5	2325.0	1693.6	1666.2	1653.5	1613.4	1575.4	1543.7	1556.4	1537.3
47.5°	5855.9	4671.2	2111.8	1647.2	1611.3	1596.5	1556.4	1526.8	1495.1	1480.3	1476.1
50°	6084.0	4789.4	1932.3	1613.4	1564.8	1556.4	1503.5	1469.8	1440.2	1429.6	1433.9
52.5°	6628.8	5112.5	1809.7	1543.7	1520.4	1482.4	1452.9	1410.6	1391.6	1357.9	1379.0
55°	7319.3	5638.4	1778.1	1478.2	1465.5	1431.8	1391.6	1360.0	1324.1	1296.6	1290.3
56°	7541.1	5889.7	1752.7	1452.9	1431.8	1412.8	1360.0	1341.0	1284.0	1277.6	1273.4
57.5°	7720.5	6111.4	1756.9	1404.3	1383.2	1366.3	1334.6	1288.2	1250.1	1226.9	1237.4
60°	7315.1	5720.7	1676.7	1330.4	1326.2	1294.5	1250.1	1229.0	1182.6	1155.1	1148.8
62.5°	5437.7	3883.5	1360.0	1235.3	1233.2	1199.4	1148.8	1125.6	1117.1	1079.1	1079.1
65°	3131.7	2434.9	1176.2	1157.2	1140.3	1106.6	1055.9	1036.9	1015.8	1003.1	992.5
67.5°	1336.8	1262.8	1068.6	1066.5	1047.5	1005.2	954.5	924.9	897.5	872.1	884.8
70°	969.3	984.1	965.0	954.5	931.2	878.5	834.1	798.3	756.0	739.1	751.8
72.5°	768.7	800.4	827.8	829.9	802.5	741.3	692.6	644.1	597.6	574.4	584.9
75°	582.8	603.9	631.4	637.7	597.6	555.4	508.9	458.3	422.4	394.9	399.1
77.5°	420.2	416.0	441.4	437.2	418.1	388.5	346.3	299.9	259.8	234.4	236.5
80°	287.2	293.5	308.3	306.2	283.0	264.0	232.3	194.3	164.8	143.6	139.4
82.5°	200.6	211.2	223.9	213.3	194.3	175.3	152.1	124.6	101.3	84.4	80.2
85°	71.8	82.3	95.0	101.3	107.7	103.4	86.6	69.7	50.7	42.2	40.1
87.5°	14.8	16.9	19.0	19.0	19.0	16.9	14.8	14.8	12.7	6.3	6.3
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)