

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: P458743

Luminaire Tested: **GALN-SA2D-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10483 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

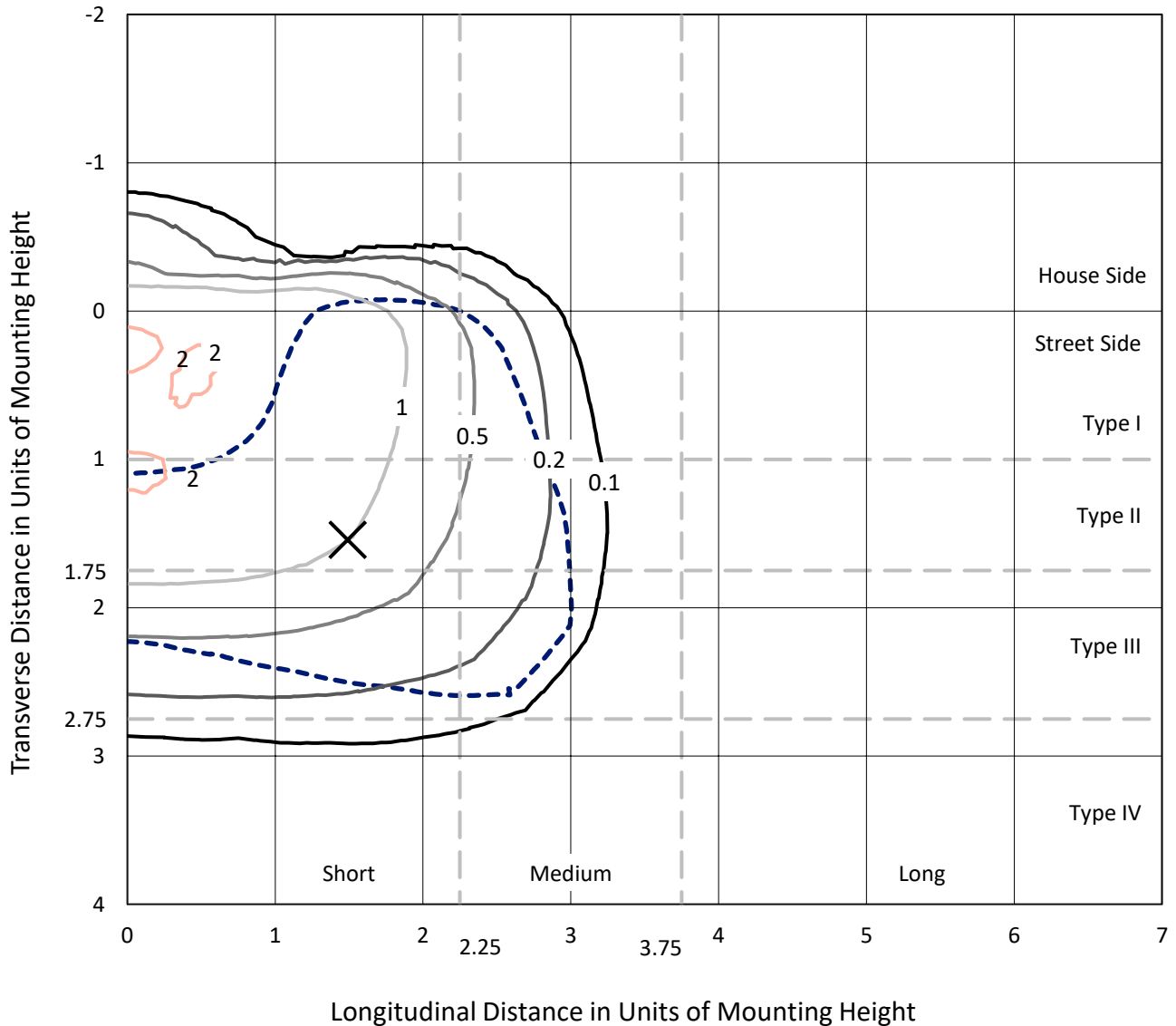
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

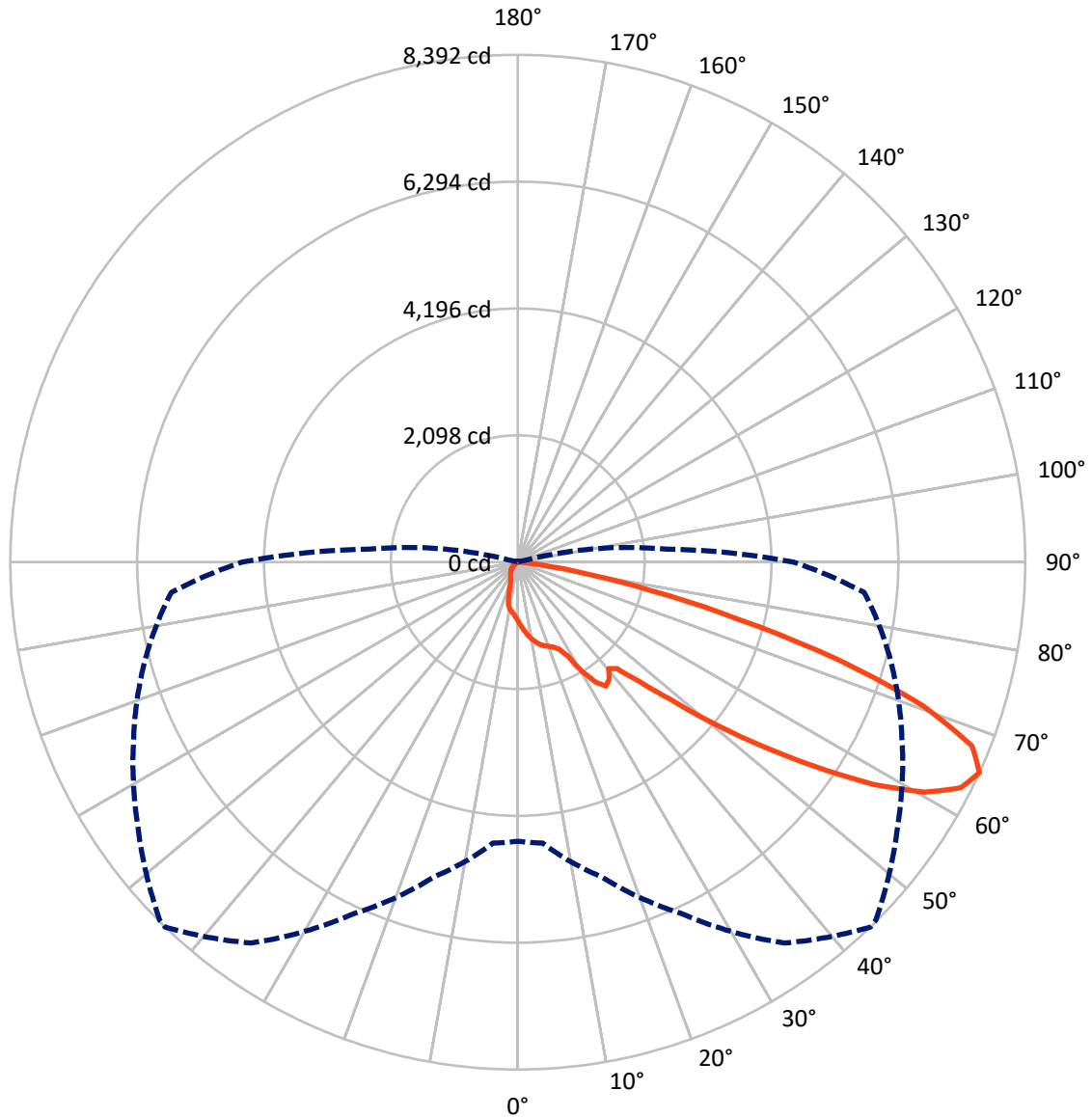
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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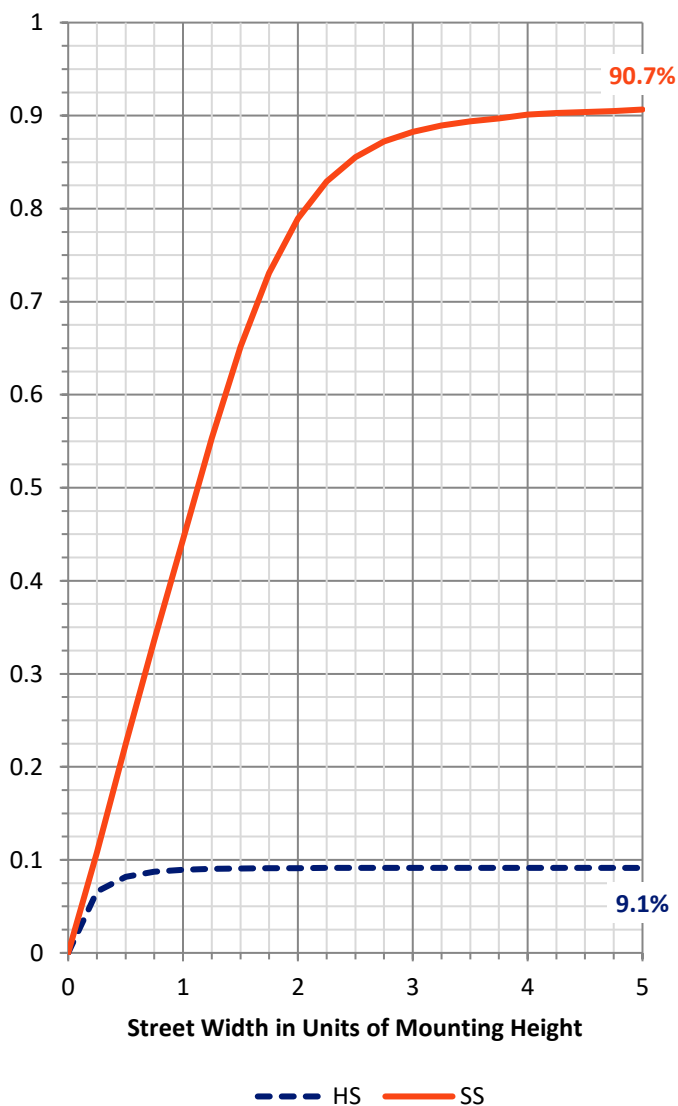
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	965.8	0.0	965.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	9517.2	0.0	9517.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	10483.0	0.0	10483.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	0.9
10°-20°	292.1	2.8
20°-30°	495.2	4.7
30°-40°	823.4	7.9
40°-50°	1437.7	13.7
50°-60°	2808.7	26.8
60°-70°	3258.7	31.1
70°-80°	1186.7	11.3
80°-90°	83.6	0.8
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°	10483.0	100.0
0°-180°	10483.0	100.0

Coefficient of Utilization

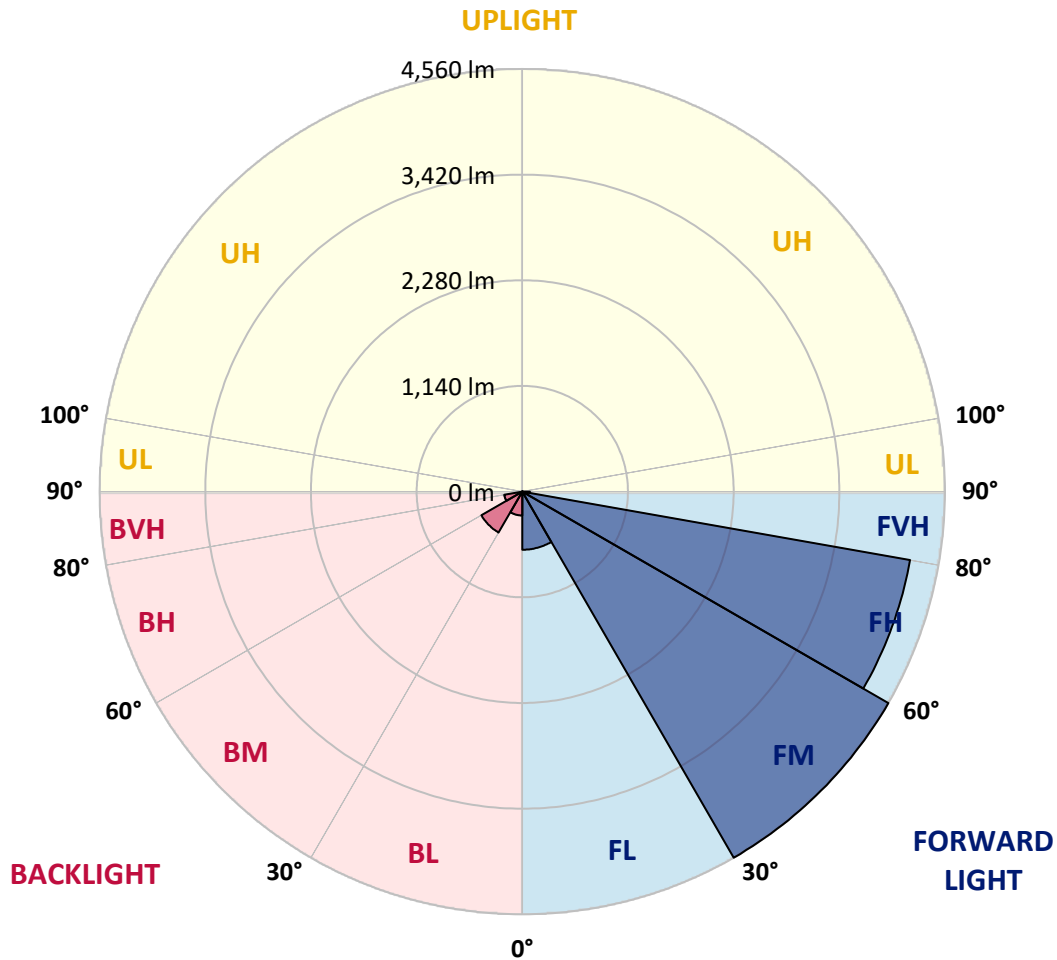


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.0	6.0			
FM (30°-60°)	4560.1	43.5			
FH (60°-80°)	4247.6	40.5			G2/5000
FVH (80°-90°)	82.5	0.8			G1/100
BL (0°-30°)	257.3	2.5	B1/500		
BM (30°-60°)	509.6	4.9	B1/1000		
BH (60°-80°)	197.8	1.9	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7
2.5°	1098.2	1093.4	1091.0	1078.2	1068.6	1056.6	1056.6	1041.3	1023.7	1004.5	986.9
5°	1220.8	1212.8	1202.3	1191.1	1168.7	1136.7	1136.7	1104.6	1067.8	1034.9	998.9
7.5°	1338.5	1331.3	1313.7	1292.1	1255.2	1221.6	1219.2	1172.7	1128.7	1079.0	1027.7
10°	1441.9	1436.2	1421.0	1379.4	1340.9	1296.9	1296.1	1244.0	1192.7	1131.9	1068.6
12.5°	1513.9	1514.7	1494.7	1454.7	1405.0	1363.4	1360.1	1308.9	1255.2	1189.5	1111.8
15°	1565.2	1565.2	1544.4	1499.5	1454.7	1417.8	1414.6	1369.8	1314.5	1243.2	1159.1
17.5°	1579.6	1584.4	1562.0	1522.0	1485.9	1453.9	1453.1	1415.4	1371.4	1302.5	1207.2
20°	1574.0	1578.8	1561.2	1530.0	1505.1	1486.7	1484.3	1469.1	1428.2	1363.4	1258.4
22.5°	1562.0	1566.8	1554.0	1535.6	1523.6	1529.2	1525.2	1538.0	1516.3	1437.8	1319.3
25°	1564.4	1569.2	1559.6	1549.2	1559.6	1594.0	1604.5	1659.7	1640.5	1532.4	1385.0
27.5°	1639.7	1649.3	1635.7	1640.5	1677.4	1757.5	1777.5	1872.8	1787.9	1652.5	1487.5
30°	1807.1	1800.7	1775.1	1798.3	1926.5	2096.3	2090.7	2075.5	1942.5	1791.1	1609.3
32.5°	1959.3	1953.7	1952.1	2052.2	2284.5	2367.0	2363.0	2215.6	2081.1	1949.7	1729.4
35°	2021.0	1999.4	1994.6	2237.3	2625.8	2516.8	2492.0	2273.3	2249.3	2122.7	1852.0
37.5°	2206.8	2191.6	2117.1	2267.7	2489.6	2453.6	2434.3	2372.7	2428.7	2275.7	1990.6
40°	2589.7	2547.3	2480.0	2332.6	2296.6	2311.8	2331.0	2500.0	2641.0	2484.8	2175.6
42.5°	3065.5	3055.9	2931.0	2656.2	2386.3	2407.1	2431.9	2766.0	2946.2	2799.6	2477.6
45°	3636.7	3650.3	3470.1	3145.6	2791.6	2809.2	2845.3	3158.5	3359.5	3289.0	2952.6
47.5°	4155.7	4145.3	4084.5	3747.2	3420.4	3381.1	3439.6	3662.3	3931.5	3942.7	3542.2
50°	4678.0	4733.3	4642.8	4510.6	4267.9	4185.4	4163.8	4272.7	4682.8	4629.2	4250.3
52.5°	5428.6	5457.4	5287.6	5254.0	5309.2	5041.7	5020.1	5046.5	5413.4	5229.1	4780.5
55°	5900.4	5883.6	5820.3	6083.0	6301.7	5967.7	5940.4	5833.9	6019.7	5652.9	5290.8
57.5°	6049.4	6073.4	6220.8	6695.8	7213.3	6929.7	6880.0	6577.3	6457.1	6047.8	5760.2
60°	5982.9	6027.0	6345.0	7051.5	7769.2	7726.7	7684.3	7175.6	6771.1	6377.8	6089.4
62.5°	5509.5	5571.2	6079.8	6988.2	7957.4	8222.6	8169.7	7548.9	6980.2	6538.0	6147.1
65°	4617.1	4662.8	5393.3	6413.8	7689.9	8392.4	8373.2	7665.9	7013.0	6391.4	5752.2
67.5°	3291.4	3446.8	4123.7	5405.4	6898.5	8102.4	8135.3	7525.7	6704.6	5757.8	4763.7
70°	2069.1	2174.8	2660.2	3869.8	5530.3	7108.3	7216.5	6884.1	5818.7	4488.2	3188.9
72.5°	986.9	1065.4	1411.4	2449.6	3903.4	5592.8	5678.5	5651.3	4499.4	2827.6	1645.3
75°	439.8	469.4	673.7	1250.4	2520.0	3759.2	3981.1	4018.0	2811.6	1383.4	640.0
77.5°	224.3	225.1	315.6	605.6	1258.4	2242.9	2286.9	2415.9	1524.4	609.6	222.7
80°	119.4	127.4	167.4	286.0	652.8	1104.6	1099.0	1208.0	676.1	298.8	74.5
82.5°	53.7	59.3	94.5	149.8	318.8	418.9	451.8	494.2	290.0	190.6	32.8
85°	16.0	19.2	46.5	75.3	115.3	121.0	135.4	174.6	164.2	135.4	16.8
87.5°	2.4	2.4	19.2	20.8	16.8	21.6	22.4	24.8	52.9	49.7	8.8
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°	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7
2.5°	977.3	971.6	951.6	934.8	920.4	911.6	901.2	894.8	891.5	889.1	889.9
5°	981.3	967.6	933.2	906.0	885.1	862.7	847.5	838.7	834.7	828.3	828.3
7.5°	1003.7	982.1	934.0	892.3	856.3	825.9	797.0	786.6	779.4	777.8	776.2
10°	1035.7	1008.5	942.8	885.1	833.9	792.2	751.4	715.3	687.3	670.5	668.1
12.5°	1075.8	1036.5	956.4	880.3	814.6	741.0	632.8	559.9	511.1	495.8	498.2
15°	1112.6	1070.2	970.0	876.3	779.4	614.4	491.8	408.5	383.7	381.3	382.1
17.5°	1156.7	1106.2	986.1	870.7	682.5	469.4	365.3	342.8	347.6	355.7	354.9
20°	1202.3	1144.7	1005.3	837.1	544.7	353.3	322.8	325.2	332.4	339.6	341.2
22.5°	1251.2	1188.7	1027.7	756.2	415.7	307.6	306.0	309.2	316.4	324.4	326.0
25°	1318.5	1244.0	1044.5	650.4	314.8	284.4	287.6	293.2	299.6	308.4	310.0
27.5°	1405.0	1318.5	1053.4	512.7	272.4	263.5	264.3	272.4	280.4	288.4	288.4
30°	1517.2	1407.4	1035.7	387.7	251.5	243.5	240.3	245.1	255.5	263.5	264.3
32.5°	1617.3	1491.5	989.3	296.4	236.3	225.1	217.1	217.9	221.9	226.7	227.5
35°	1717.4	1573.2	910.0	249.1	220.3	207.5	195.5	189.0	185.8	183.4	185.8
37.5°	1845.6	1675.0	804.2	226.7	206.7	190.6	173.8	160.2	149.0	141.8	143.4
40°	2010.6	1815.9	679.3	212.3	193.8	174.6	152.2	134.6	115.3	108.9	105.7
42.5°	2282.9	2029.8	547.9	200.3	181.0	157.8	129.8	105.7	88.1	81.7	83.3
45°	2713.1	2299.8	422.1	187.4	168.2	139.4	108.9	83.3	68.9	65.7	67.3
47.5°	3283.4	2649.0	325.2	173.0	152.2	119.4	85.7	65.7	56.9	56.1	55.3
50°	3820.1	2974.2	271.5	157.0	133.0	99.3	70.5	55.3	49.7	48.9	48.9
52.5°	4305.5	3207.3	221.1	138.6	112.1	81.7	59.3	48.9	44.1	41.7	41.7
55°	4737.3	3359.5	179.4	116.1	88.1	64.9	51.3	44.1	38.4	35.2	34.4
57.5°	5063.3	3377.9	134.6	92.9	65.7	50.5	44.1	38.4	32.0	28.0	26.4
60°	5202.7	3218.5	99.3	70.5	48.9	40.1	35.2	31.2	24.0	20.0	19.2
62.5°	5062.5	2908.5	73.7	53.7	37.6	29.6	24.8	23.2	16.8	12.0	11.2
65°	4560.3	2460.8	58.5	40.9	28.0	21.6	16.0	15.2	10.4	5.6	4.8
67.5°	3653.5	1927.3	46.5	30.4	20.0	14.4	10.4	9.6	5.6	1.6	1.6
70°	2375.9	1232.0	37.6	22.4	12.8	9.6	6.4	4.8	3.2	0.8	0.0
72.5°	1175.1	575.9	30.4	17.6	8.8	4.8	2.4	1.6	2.4	0.0	0.0
75°	455.8	205.1	22.4	12.0	4.8	2.4	1.6	0.0	0.8	0.0	0.0
77.5°	151.4	68.1	13.6	6.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0
80°	56.1	26.4	7.2	4.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	22.4	10.4	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.2	6.4	3.2	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	4.8	3.2	2.4	1.6	0.8	0.0	0.0	0.0	0.0	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)