

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: P451228

Luminaire Tested: **GALN-SA2A-750-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451228  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-750-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7200 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

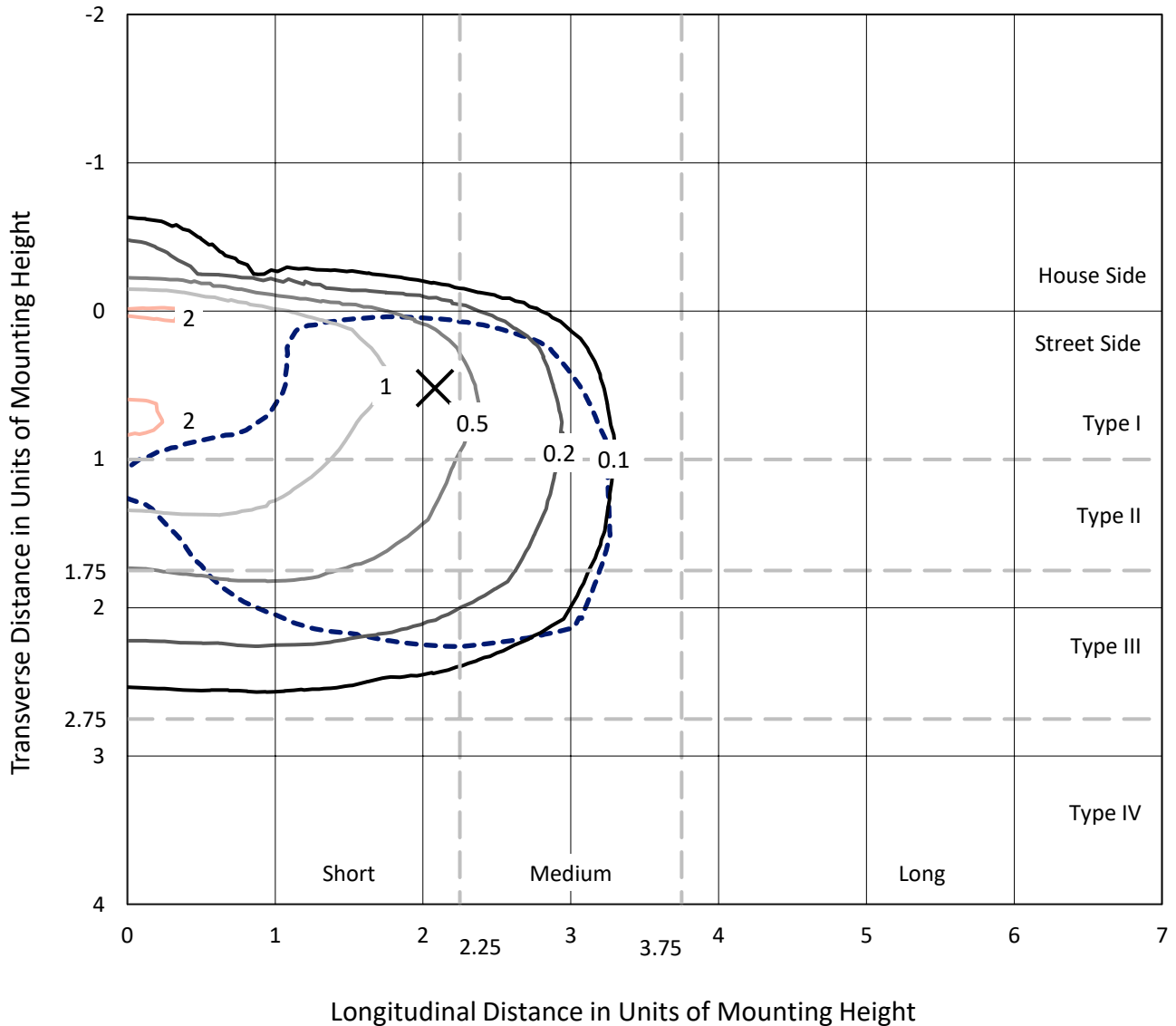
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

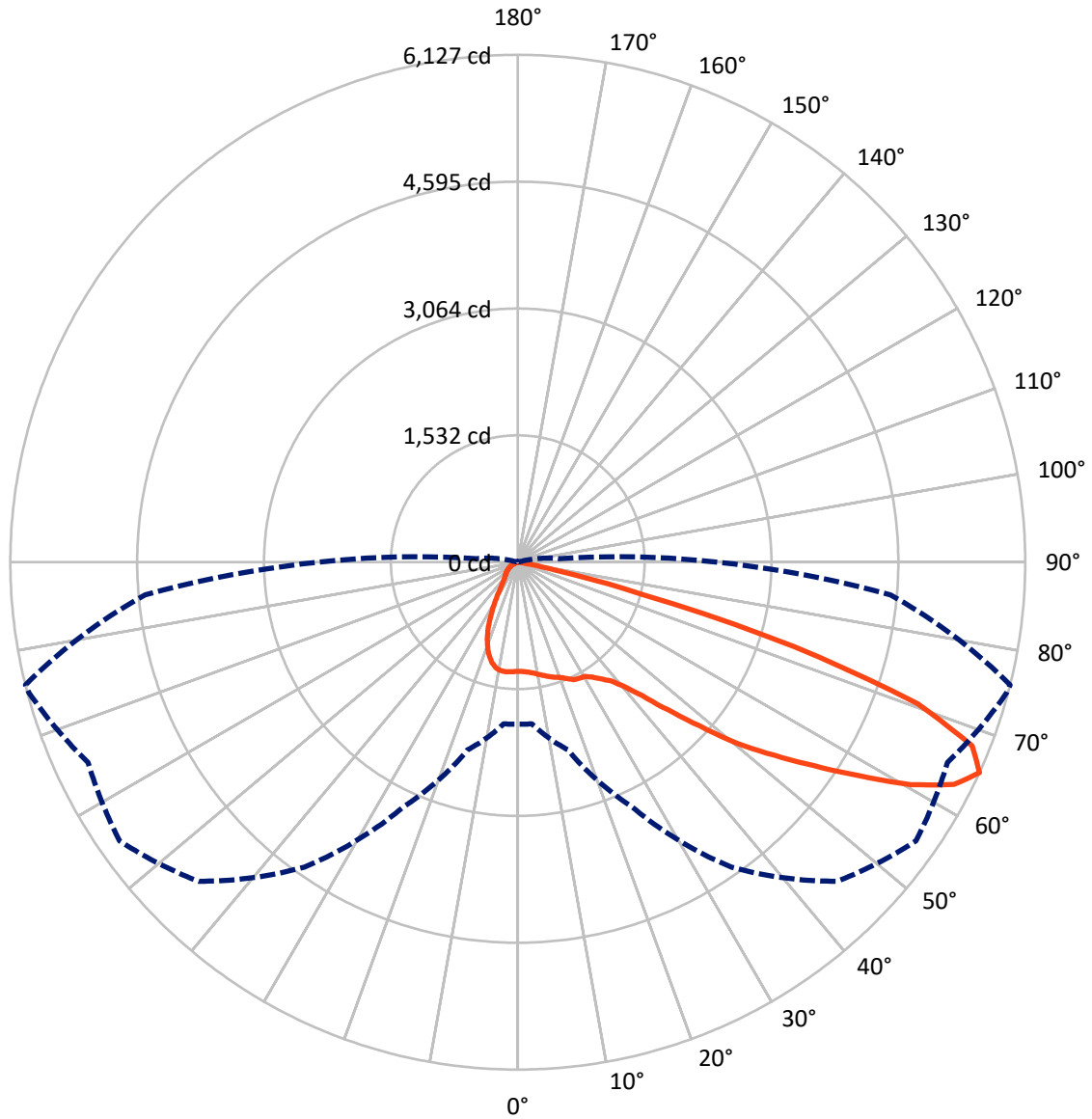
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical



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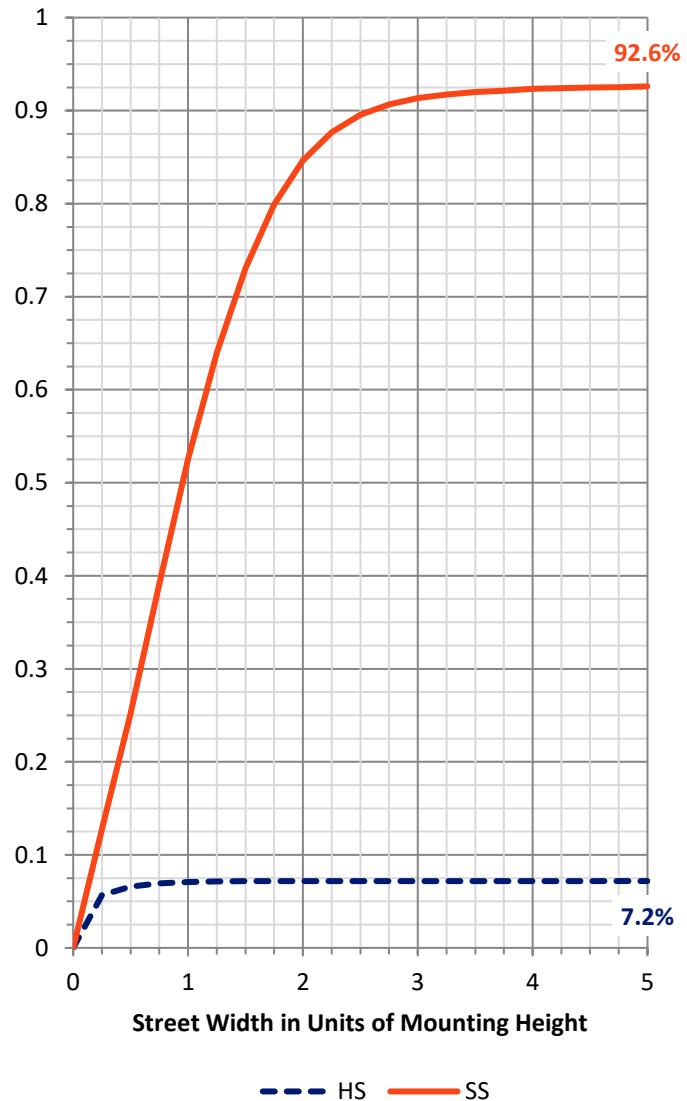
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	520.0	0.0	520.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	6680.0	0.0	6680.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	7200.0	0.0	7200.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.5	1.5
10°-20°	241.6	3.4
20°-30°	389.3	5.4
30°-40°	676.9	9.4
40°-50°	1118.5	15.5
50°-60°	1727.8	24.0
60°-70°	2109.9	29.3
70°-80°	800.8	11.1
80°-90°	26.7	0.4
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°	7200.0	100.0
0°-180°	7200.0	100.0



REPORT NUMBER: P451228

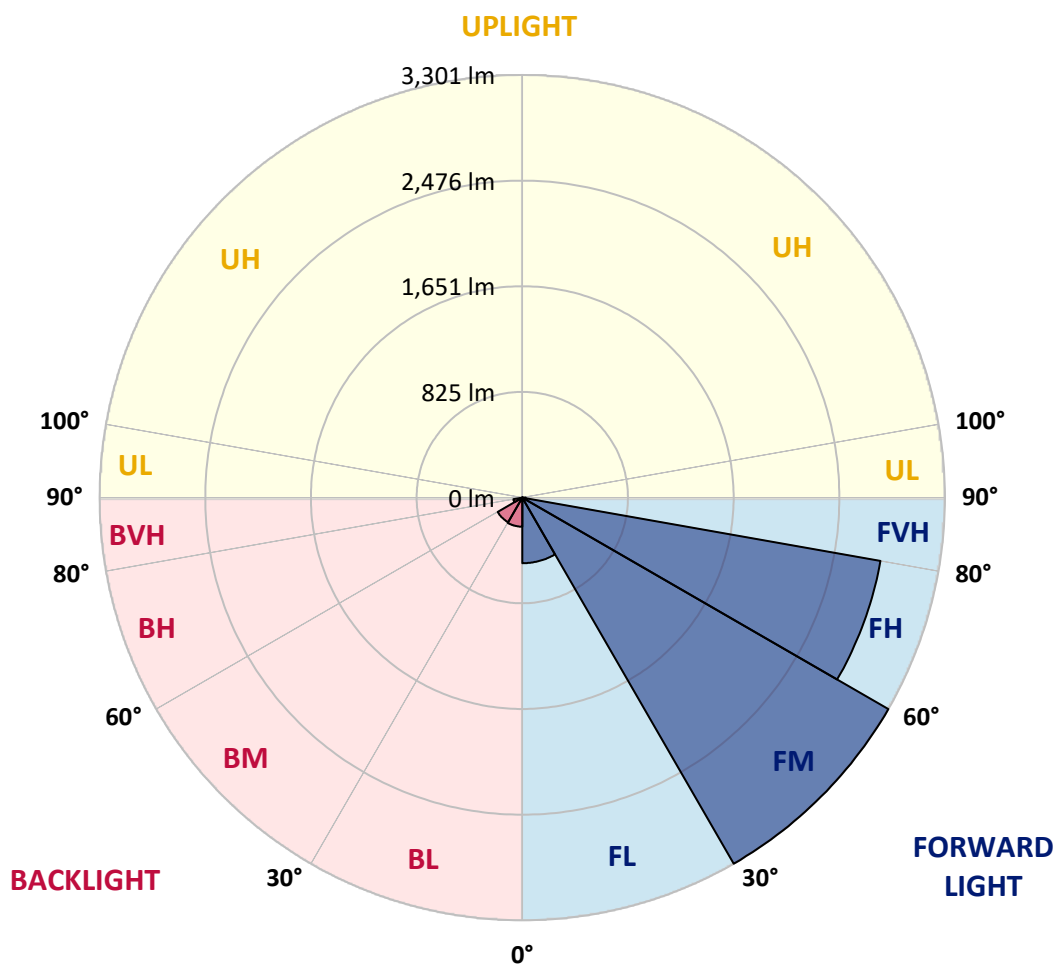
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	512.2	7.1			
FM (30°-60°)	3301.3	45.9			
FH (60°-80°)	2840.2	39.4			G2/5000
FVH (80°-90°)	26.4	0.4			G1/100
BL (0°-30°)	227.2	3.2	B1/500		
BM (30°-60°)	221.9	3.1	B1/1000		
BH (60°-80°)	70.6	1.0	B0/110		G0/110
BVH (80°-90°)	0.4	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°	45°	55°	65°	75°	76°	85°
0°	1317.1	1317.1	1317.1	1317.1	1317.1	1317.1	1317.1	1317.1	1317.1	1317.1	1317.1
2.5°	1258.7	1259.2	1262.2	1269.8	1281.5	1291.2	1299.3	1312.5	1321.7	1322.7	1325.8
5°	1171.7	1165.6	1171.7	1191.5	1209.3	1236.3	1269.3	1302.4	1331.9	1333.9	1348.1
7.5°	1074.1	1079.2	1088.9	1109.2	1142.7	1183.9	1231.7	1290.7	1346.6	1351.7	1379.6
10°	975.0	986.2	1001.9	1032.9	1079.7	1133.1	1198.2	1282.5	1370.0	1377.1	1425.4
12.5°	883.5	888.6	907.9	949.6	1007.5	1082.8	1172.7	1278.0	1395.9	1404.5	1474.2
15°	813.3	820.0	836.7	874.3	938.9	1035.5	1151.9	1276.4	1421.3	1433.5	1523.0
17.5°	800.1	804.2	811.3	836.7	893.2	997.9	1133.1	1275.9	1445.7	1460.5	1568.2
20°	854.5	851.0	843.8	841.3	872.3	968.9	1119.4	1280.0	1469.1	1485.9	1616.0
22.5°	990.8	995.3	953.6	904.3	894.2	964.3	1117.3	1299.3	1506.2	1526.0	1669.4
25°	1280.0	1244.9	1179.9	1061.9	973.0	992.3	1140.2	1345.1	1549.4	1571.3	1717.7
27.5°	1599.7	1589.1	1487.9	1293.7	1128.0	1051.2	1180.9	1380.1	1563.7	1586.0	1745.1
30°	1913.9	1926.6	1810.7	1596.2	1353.2	1160.5	1219.0	1393.4	1576.4	1599.7	1780.2
32.5°	2205.2	2220.4	2118.8	1906.3	1618.6	1349.6	1284.6	1444.7	1629.7	1653.6	1838.7
35°	2434.4	2436.5	2359.7	2190.4	1908.3	1579.4	1426.4	1534.7	1701.9	1729.9	1900.7
37.5°	2644.9	2641.8	2551.9	2406.0	2149.8	1807.7	1604.8	1638.4	1784.3	1813.2	1990.2
40°	2801.0	2803.0	2774.0	2636.8	2375.0	2018.6	1746.1	1735.5	1922.5	1967.8	2120.3
42.5°	2905.2	2924.0	2938.2	2868.6	2658.1	2278.4	1963.2	1943.4	2162.5	2200.1	2304.3
45°	2989.5	3023.1	3094.3	3090.7	2930.1	2597.1	2261.1	2220.4	2502.6	2542.7	2538.7
47.5°	3051.1	3085.1	3203.1	3274.2	3185.8	2906.2	2635.7	2600.7	2908.7	2952.4	2797.4
50°	3082.6	3123.2	3273.7	3411.5	3385.5	3204.1	3062.8	3064.8	3399.3	3441.5	3097.3
52.5°	3008.9	3061.7	3311.3	3559.4	3609.7	3489.2	3462.8	3529.9	3835.9	3872.0	3368.3
55°	2773.5	2840.1	3260.0	3685.5	3869.5	3825.8	3917.3	4019.4	4313.3	4336.7	3646.3
57.5°	2624.6	2695.2	3108.5	3792.7	4181.6	4248.7	4393.6	4468.3	4805.8	4865.3	3965.6
60°	2499.0	2554.4	2984.0	3815.6	4498.8	4766.2	4907.0	4984.3	5413.8	5452.5	4316.8
62.5°	2290.1	2353.6	2773.5	3656.0	4658.4	5180.5	5472.3	5437.7	5884.0	5911.0	4532.4
65°	1954.1	1959.7	2346.5	3254.9	4493.7	5449.4	5869.3	5724.4	6108.7	6127.0	4515.6
67.5°	1458.4	1512.3	1805.1	2558.5	3795.8	5219.6	5997.9	5732.0	5966.9	5916.1	4157.2
70°	939.4	980.6	1223.6	1774.1	2736.9	4356.0	5571.4	5339.1	5236.9	5124.1	3402.8
72.5°	433.6	486.5	726.9	1013.6	1623.1	3102.9	4522.7	4337.7	3769.3	3490.8	2163.0
75°	189.1	202.3	358.9	534.8	761.0	1640.9	2981.9	2692.7	1702.4	1555.0	865.7
77.5°	115.4	124.0	188.1	286.7	298.9	625.3	1606.4	1174.8	526.1	464.1	234.9
80°	78.3	87.9	136.7	150.0	102.2	174.4	602.9	313.6	106.2	101.7	50.3
82.5°	38.1	48.3	101.2	83.9	44.2	55.9	175.4	67.1	31.0	29.0	17.8
85°	5.6	9.7	56.9	54.9	19.8	13.2	31.0	16.8	10.7	10.2	8.1
87.5°	0.0	0.0	19.3	8.6	2.0	2.0	3.6	3.6	4.1	3.6	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P451228

CATALOG NUMBER: GALN-SA2A-750-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1317.1	1317.1	1317.1	1317.1	1317.1	1317.1	1317.1	1317.1	1317.1	1317.1	1317.1
2.5°	1327.3	1329.8	1320.2	1306.4	1291.7	1277.0	1256.1	1237.3	1226.1	1232.7	1216.5
5°	1351.2	1349.1	1323.7	1282.0	1226.6	1160.0	1093.9	1037.5	1019.2	991.8	988.7
7.5°	1384.2	1378.6	1324.7	1229.2	1104.1	979.1	857.1	776.2	730.0	690.8	691.9
10°	1430.5	1414.2	1313.0	1136.1	930.3	741.7	586.1	479.4	433.1	418.4	406.7
12.5°	1478.3	1446.7	1280.5	1010.6	724.4	506.8	356.3	291.3	262.8	253.7	252.6
15°	1521.0	1471.1	1223.6	859.6	526.6	323.8	243.0	221.6	218.1	218.6	218.1
17.5°	1563.1	1490.5	1144.8	699.5	357.9	232.3	208.9	203.8	205.4	207.4	206.9
20°	1598.2	1494.5	1044.1	533.8	253.2	203.8	196.2	195.2	196.7	198.3	198.3
22.5°	1636.3	1497.6	924.7	369.6	206.9	189.6	185.5	185.5	187.6	189.6	190.1
25°	1664.8	1480.8	781.8	265.4	182.5	175.9	173.9	174.4	176.4	177.4	176.9
27.5°	1669.4	1433.5	630.3	203.3	165.7	159.1	157.1	159.1	156.6	158.1	157.1
30°	1673.5	1373.5	476.8	171.3	150.5	140.3	137.3	134.2	132.2	129.6	129.1
32.5°	1686.2	1302.9	348.2	154.0	136.2	125.1	117.9	109.3	102.7	100.7	100.1
35°	1691.8	1218.0	255.7	140.3	123.5	111.3	98.6	86.4	76.8	73.2	75.7
37.5°	1713.1	1135.6	198.3	130.1	112.3	97.1	80.8	65.6	56.4	54.4	55.4
40°	1756.8	1046.2	166.2	121.5	102.7	83.9	64.1	49.3	43.2	41.2	40.7
42.5°	1827.0	957.2	147.9	113.4	93.0	70.7	50.3	38.6	33.6	32.0	32.0
45°	1912.4	871.8	135.2	104.7	82.9	56.9	39.7	31.0	28.0	26.9	26.9
47.5°	2024.7	797.1	124.5	96.1	71.7	45.2	32.0	26.9	24.9	25.4	25.9
50°	2138.6	741.7	112.9	86.4	59.0	37.1	27.5	23.9	23.4	23.9	23.9
52.5°	2224.5	709.1	97.1	73.2	46.3	31.0	24.4	22.4	21.9	20.8	20.8
55°	2340.4	702.0	77.3	59.5	36.6	25.9	21.9	20.3	18.8	17.8	17.3
57.5°	2489.3	710.2	59.5	46.3	28.5	21.4	19.3	16.8	14.7	12.7	12.7
60°	2581.9	691.9	46.3	35.6	20.8	17.3	14.7	12.2	9.7	8.1	7.6
62.5°	2552.4	614.6	36.6	26.4	14.7	12.7	9.7	8.1	5.6	4.1	3.6
65°	2400.4	496.1	29.5	18.3	10.7	7.6	5.1	5.1	2.5	0.5	0.0
67.5°	2101.0	367.5	23.4	12.2	6.1	3.6	2.5	1.5	0.0	0.0	0.0
70°	1710.1	265.4	18.3	7.6	3.6	2.5	1.0	0.5	0.0	0.0	0.0
72.5°	1085.8	152.0	14.2	4.6	2.5	1.0	0.0	0.0	0.0	0.0	0.0
75°	419.9	59.5	9.7	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	119.0	28.0	5.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	31.0	12.2	3.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.7	5.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.6	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	0.5	0.0	0.0	0.0	0.0	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)