

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: P451025

Luminaire Tested: **GALN-SA1D-760-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451025  
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-SA1D-760-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6129 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

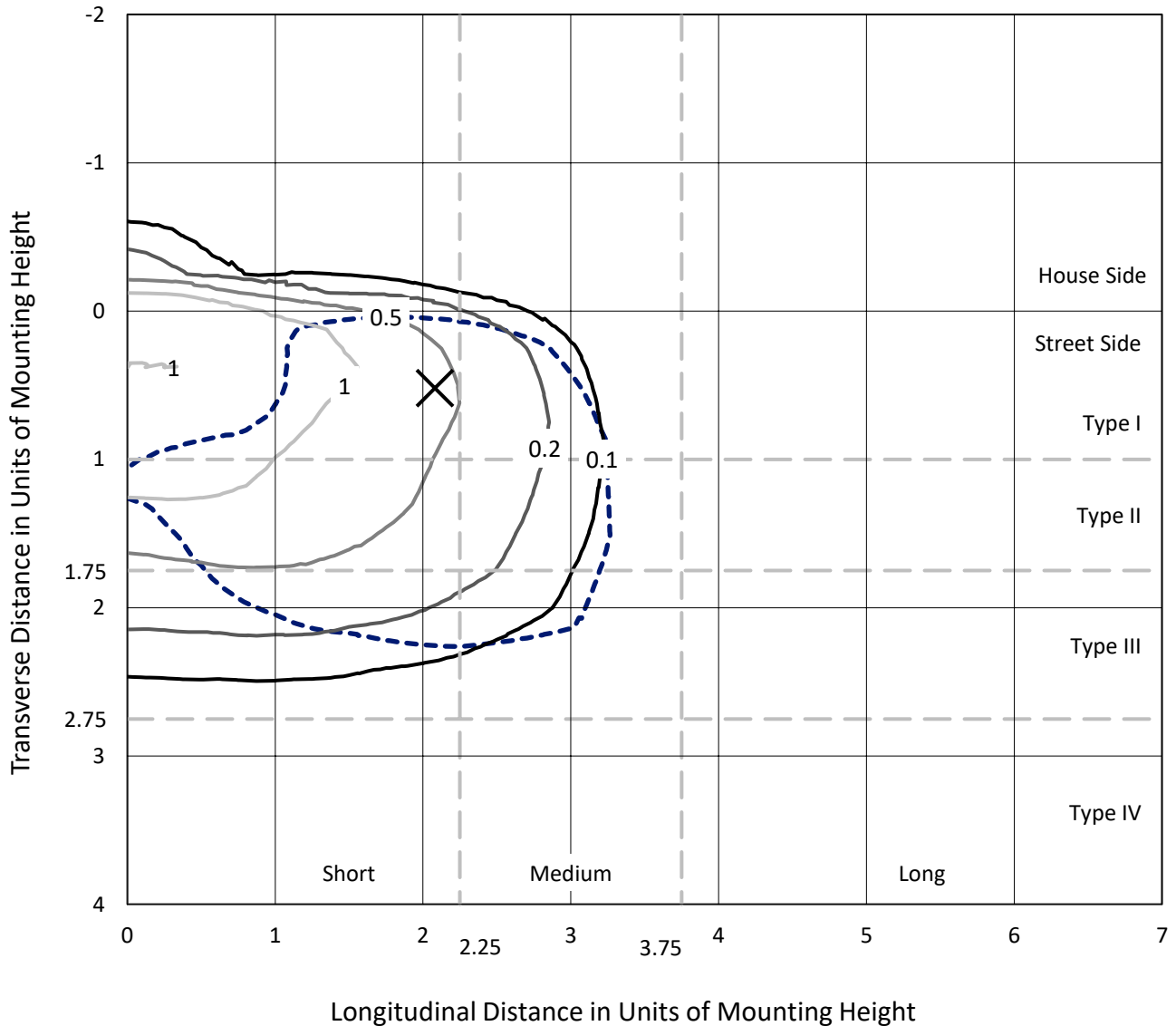
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

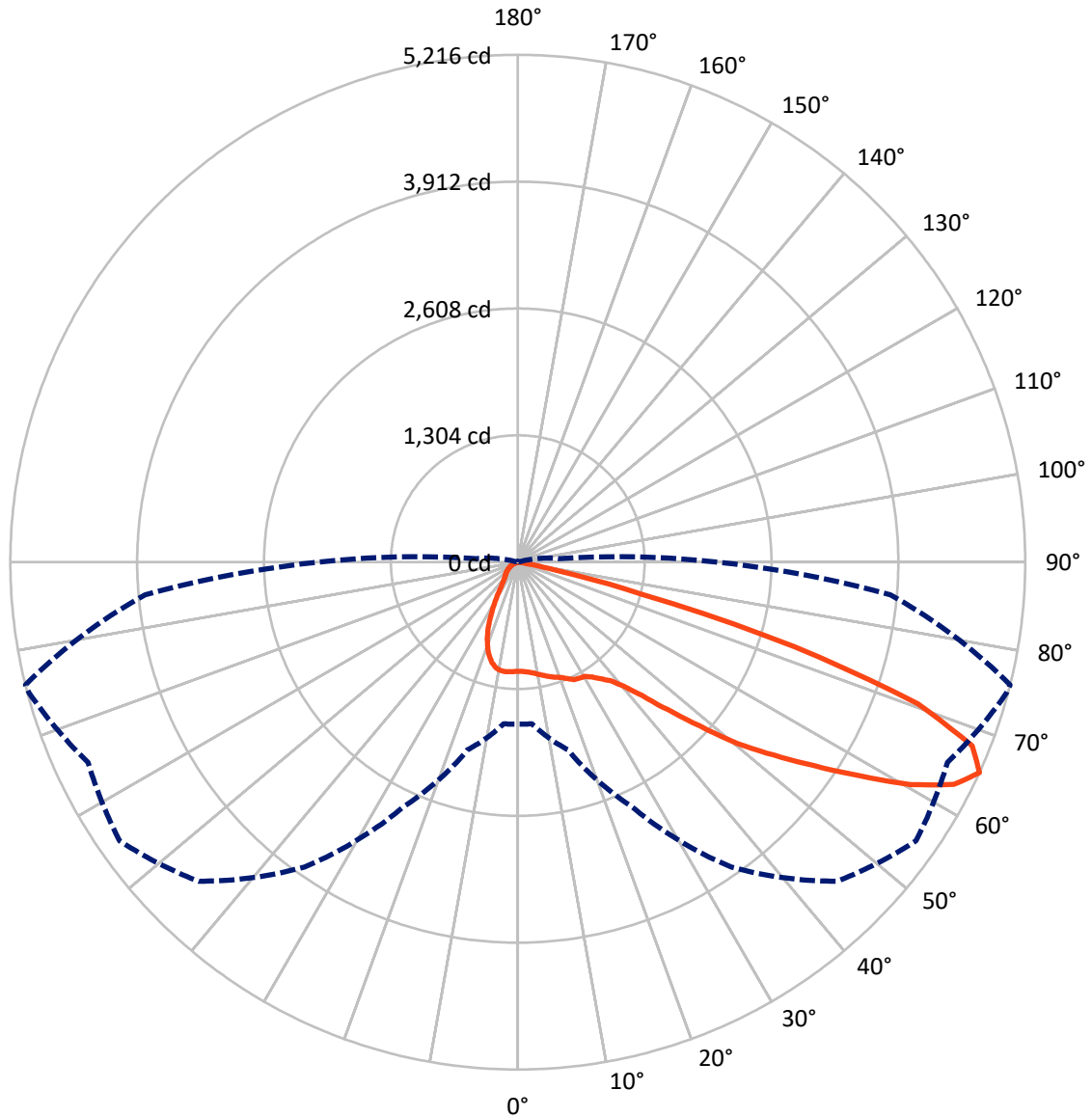
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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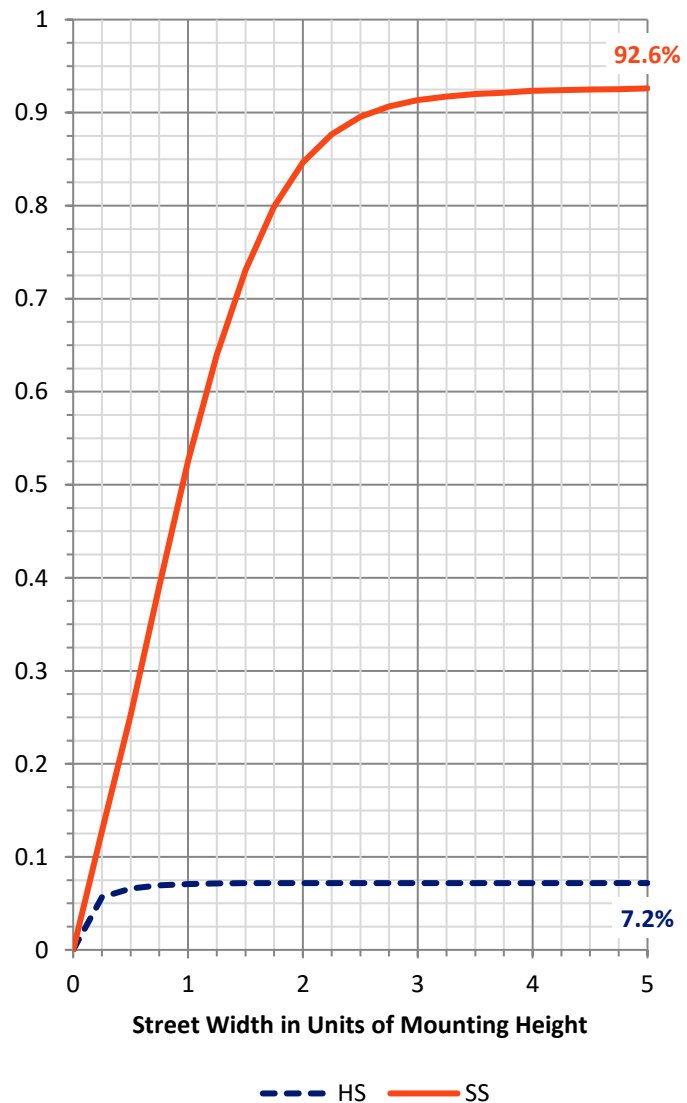
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	442.6	0.0	442.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	5686.4	0.0	5686.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	6129.0	0.0	6129.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.4	1.5
10°-20°	205.6	3.4
20°-30°	331.4	5.4
30°-40°	576.2	9.4
40°-50°	952.1	15.5
50°-60°	1470.8	24.0
60°-70°	1796.1	29.3
70°-80°	681.7	11.1
80°-90°	22.7	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°	6129.0	100.0
0°-180°	6129.0	100.0



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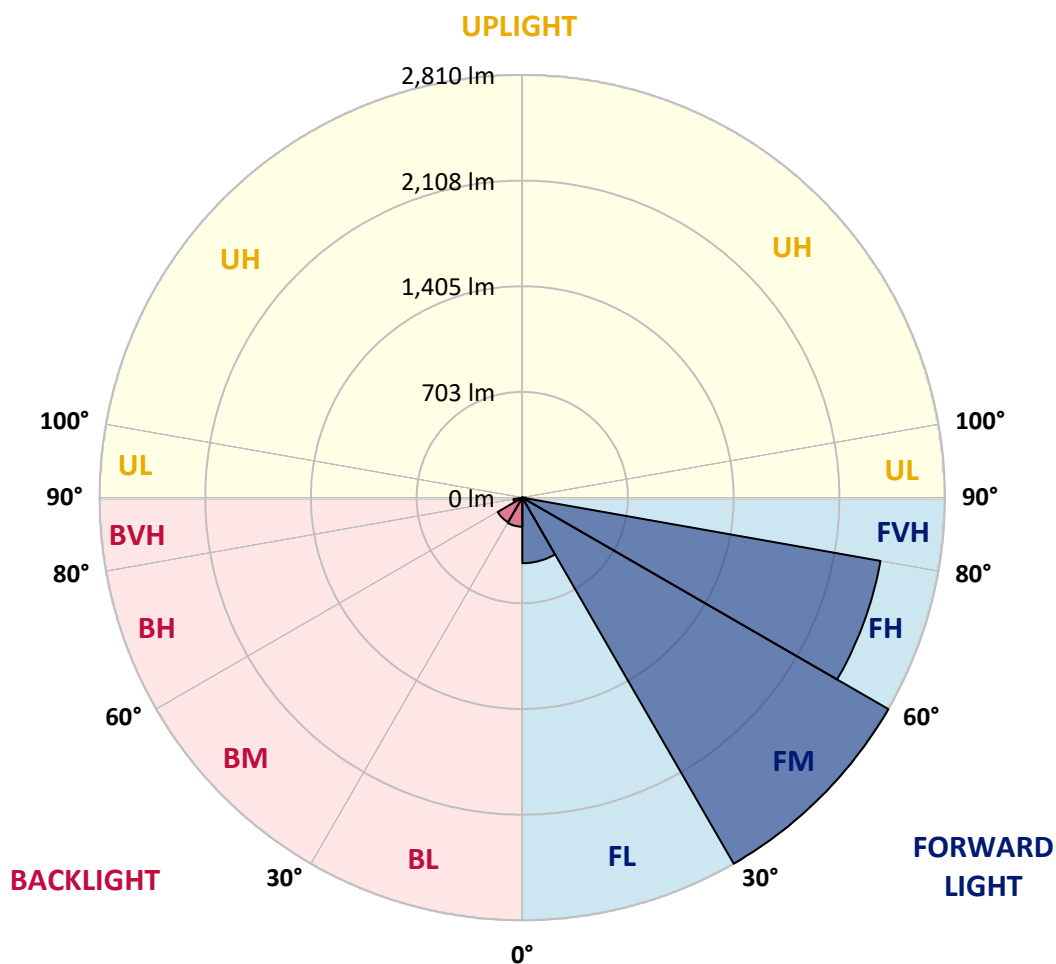
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	436.0	7.1			
FM (30°-60°)	2810.2	45.9			
FH (60°-80°)	2417.7	39.4			G2/5000
FVH (80°-90°)	22.4	0.4			G1/100
BL (0°-30°)	193.4	3.2	B1/500		
BM (30°-60°)	188.9	3.1	B0/220		
BH (60°-80°)	60.1	1.0	B0/110		G0/110
BVH (80°-90°)	0.3	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°	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2
2.5°	1071.4	1071.9	1074.5	1080.9	1090.9	1099.1	1106.0	1117.3	1125.1	1125.9	1128.5
5°	997.4	992.2	997.4	1014.3	1029.5	1052.4	1080.5	1108.6	1133.7	1135.5	1147.6
7.5°	914.3	918.7	926.9	944.2	972.8	1007.8	1048.5	1098.7	1146.3	1150.6	1174.4
10°	830.0	839.5	852.9	879.3	919.1	964.5	1019.9	1091.8	1166.2	1172.3	1213.4
12.5°	752.1	756.4	772.8	808.3	857.7	921.7	998.3	1087.9	1188.3	1195.6	1254.9
15°	692.4	698.0	712.3	744.3	799.2	881.5	980.6	1086.6	1209.9	1220.3	1296.4
17.5°	681.1	684.6	690.6	712.3	760.3	849.4	964.5	1086.1	1230.7	1243.2	1335.0
20°	727.4	724.4	718.3	716.2	742.6	824.8	952.9	1089.6	1250.6	1264.9	1375.6
22.5°	843.4	847.3	811.8	769.8	761.2	820.9	951.1	1106.0	1282.2	1299.0	1421.1
25°	1089.6	1059.7	1004.4	904.0	828.2	844.7	970.6	1145.0	1318.9	1337.6	1462.2
27.5°	1361.8	1352.7	1266.6	1101.3	960.2	894.9	1005.2	1174.8	1331.1	1350.1	1485.5
30°	1629.2	1640.0	1541.4	1358.8	1151.9	987.9	1037.7	1186.1	1341.9	1361.8	1515.4
32.5°	1877.2	1890.1	1803.6	1622.7	1377.8	1148.9	1093.5	1229.8	1387.3	1407.7	1565.2
35°	2072.3	2074.0	2008.7	1864.6	1624.4	1344.5	1214.2	1306.4	1448.8	1472.6	1618.0
37.5°	2251.5	2248.9	2172.3	2048.1	1830.0	1538.8	1366.1	1394.7	1518.9	1543.5	1694.1
40°	2384.3	2386.0	2361.4	2244.5	2021.7	1718.3	1486.4	1477.3	1636.6	1675.1	1804.9
42.5°	2473.0	2489.0	2501.1	2441.9	2262.7	1939.5	1671.2	1654.3	1840.8	1872.8	1961.5
45°	2544.9	2573.4	2634.0	2631.0	2494.2	2210.8	1924.8	1890.1	2130.3	2164.5	2161.0
47.5°	2597.2	2626.2	2726.6	2787.2	2711.9	2473.9	2243.7	2213.8	2476.1	2513.3	2381.3
50°	2624.0	2658.7	2786.7	2904.0	2881.9	2727.5	2607.2	2608.9	2893.6	2929.5	2636.6
52.5°	2561.3	2606.3	2818.8	3029.9	3072.8	2970.2	2947.7	3004.8	3265.3	3296.1	2867.2
55°	2360.9	2417.6	2775.1	3137.3	3293.9	3256.7	3334.6	3421.6	3671.7	3691.6	3103.9
57.5°	2234.2	2294.3	2646.1	3228.6	3559.6	3616.7	3740.0	3803.7	4091.0	4141.6	3375.7
60°	2127.3	2174.4	2540.1	3248.0	3829.6	4057.2	4177.1	4242.9	4608.5	4641.4	3674.7
62.5°	1949.4	2003.5	2360.9	3112.2	3965.5	4409.9	4658.3	4628.9	5008.8	5031.7	3858.2
65°	1663.4	1668.2	1997.5	2770.7	3825.3	4638.8	4996.2	4872.9	5200.1	5215.6	3843.9
67.5°	1241.5	1287.4	1536.6	2177.9	3231.2	4443.2	5105.7	4879.4	5079.3	5036.1	3538.8
70°	799.7	834.7	1041.6	1510.2	2329.8	3708.0	4742.7	4544.9	4457.9	4361.9	2896.7
72.5°	369.1	414.1	618.8	862.9	1381.7	2641.4	3850.0	3692.4	3208.7	2971.5	1841.2
75°	161.0	172.2	305.5	455.2	647.8	1396.8	2538.4	2292.1	1449.2	1323.7	736.9
77.5°	98.2	105.6	160.1	244.1	254.4	532.3	1367.4	1000.0	447.9	395.1	199.9
80°	66.6	74.9	116.4	127.7	87.0	148.4	513.2	267.0	90.4	86.5	42.8
82.5°	32.5	41.1	86.1	71.4	37.6	47.6	149.3	57.1	26.4	24.7	15.1
85°	4.8	8.2	48.5	46.7	16.9	11.3	26.4	14.3	9.1	8.7	6.9
87.5°	0.0	0.0	16.4	7.4	1.7	1.7	3.0	3.0	3.5	3.0	3.5
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°	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2
2.5°	1129.8	1132.0	1123.8	1112.1	1099.6	1087.0	1069.3	1053.3	1043.7	1049.4	1035.5
5°	1150.2	1148.5	1126.8	1091.3	1044.2	987.5	931.2	883.2	867.6	844.2	841.6
7.5°	1178.3	1173.5	1127.7	1046.3	939.9	833.4	729.6	660.8	621.4	588.1	588.9
10°	1217.7	1203.8	1117.7	967.1	791.9	631.3	498.9	408.1	368.7	356.1	346.2
12.5°	1258.4	1231.5	1090.0	860.3	616.6	431.4	303.3	248.0	223.7	215.9	215.1
15°	1294.7	1252.3	1041.6	731.7	448.3	275.6	206.8	188.7	185.6	186.1	185.6
17.5°	1330.6	1268.7	974.5	595.4	304.6	197.8	177.8	173.5	174.8	176.6	176.1
20°	1360.5	1272.2	888.8	454.4	215.5	173.5	167.0	166.2	167.5	168.8	168.8
22.5°	1392.9	1274.8	787.1	314.6	176.1	161.4	157.9	157.9	159.7	161.4	161.8
25°	1417.2	1260.5	665.5	225.9	155.3	149.7	148.0	148.4	150.2	151.0	150.6
27.5°	1421.1	1220.3	536.6	173.1	141.1	135.4	133.7	135.4	133.3	134.6	133.7
30°	1424.5	1169.2	405.9	145.8	128.1	119.4	116.8	114.2	112.5	110.3	109.9
32.5°	1435.3	1109.1	296.4	131.1	116.0	106.5	100.4	93.0	87.4	85.7	85.2
35°	1440.1	1036.8	217.7	119.4	105.2	94.8	83.9	73.6	65.3	62.3	64.5
37.5°	1458.3	966.7	168.8	110.8	95.6	82.7	68.8	55.8	48.0	46.3	47.2
40°	1495.5	890.5	141.5	103.4	87.4	71.4	54.5	42.0	36.8	35.1	34.6
42.5°	1555.2	814.8	125.9	96.5	79.2	60.1	42.8	32.9	28.6	27.3	27.3
45°	1627.9	742.1	115.1	89.1	70.5	48.5	33.8	26.4	23.8	22.9	22.9
47.5°	1723.5	678.5	106.0	81.8	61.0	38.5	27.3	22.9	21.2	21.6	22.1
50°	1820.5	631.3	96.1	73.6	50.2	31.6	23.4	20.3	19.9	20.3	20.3
52.5°	1893.6	603.7	82.7	62.3	39.4	26.4	20.8	19.0	18.6	17.7	17.7
55°	1992.3	597.6	65.8	50.6	31.2	22.1	18.6	17.3	16.0	15.1	14.7
57.5°	2119.1	604.5	50.6	39.4	24.2	18.2	16.4	14.3	12.5	10.8	10.8
60°	2197.8	588.9	39.4	30.3	17.7	14.7	12.5	10.4	8.2	6.9	6.5
62.5°	2172.7	523.2	31.2	22.5	12.5	10.8	8.2	6.9	4.8	3.5	3.0
65°	2043.3	422.3	25.1	15.6	9.1	6.5	4.3	4.3	2.2	0.4	0.0
67.5°	1788.5	312.9	19.9	10.4	5.2	3.0	2.2	1.3	0.0	0.0	0.0
70°	1455.7	225.9	15.6	6.5	3.0	2.2	0.9	0.4	0.0	0.0	0.0
72.5°	924.3	129.4	12.1	3.9	2.2	0.9	0.0	0.0	0.0	0.0	0.0
75°	357.4	50.6	8.2	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	101.3	23.8	4.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	26.4	10.4	2.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.5	4.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.4	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	0.4	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)