

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: P450984

Luminaire Tested: **GALN-SA1D-750-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450984  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1D-750-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7662 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

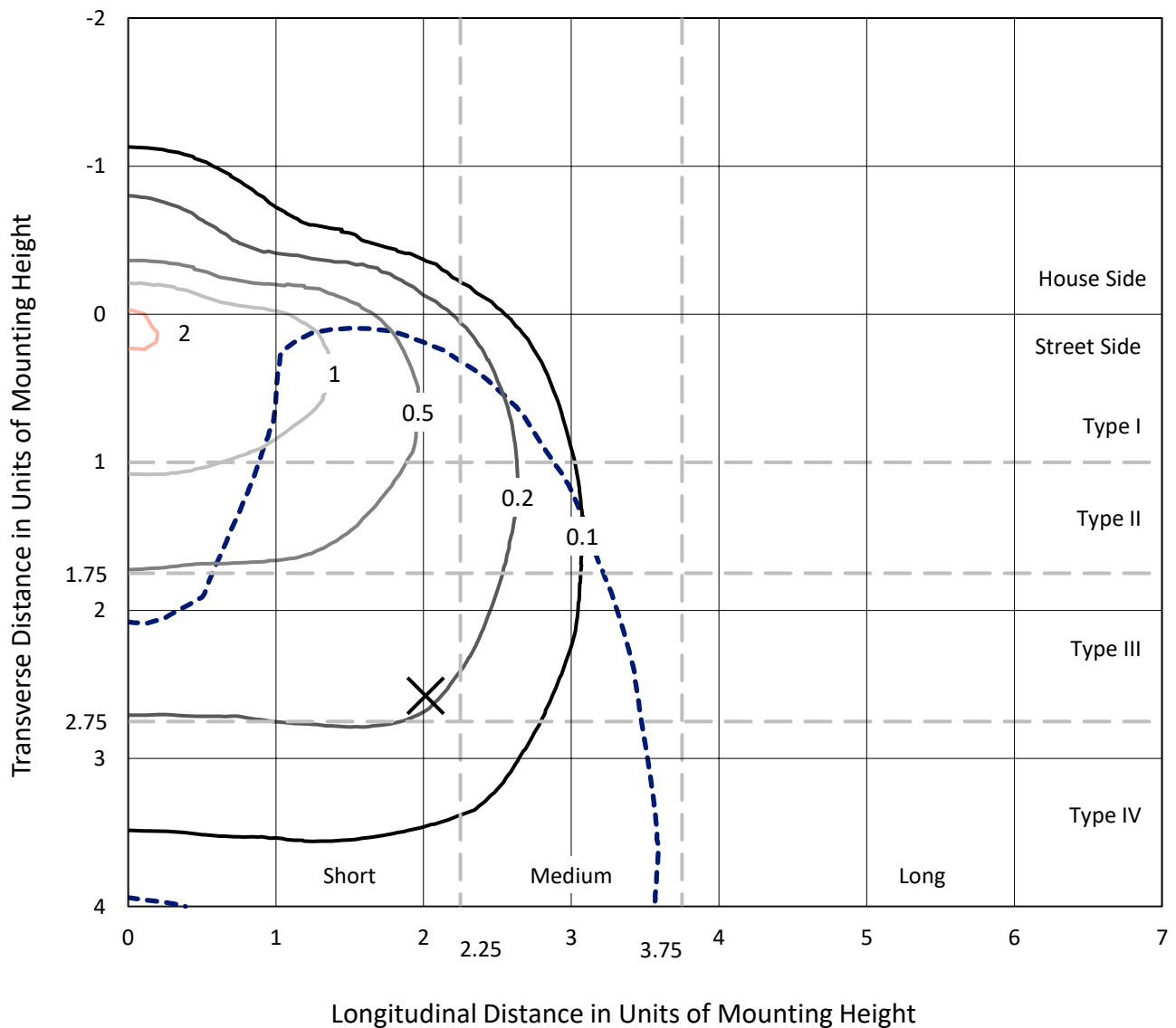
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

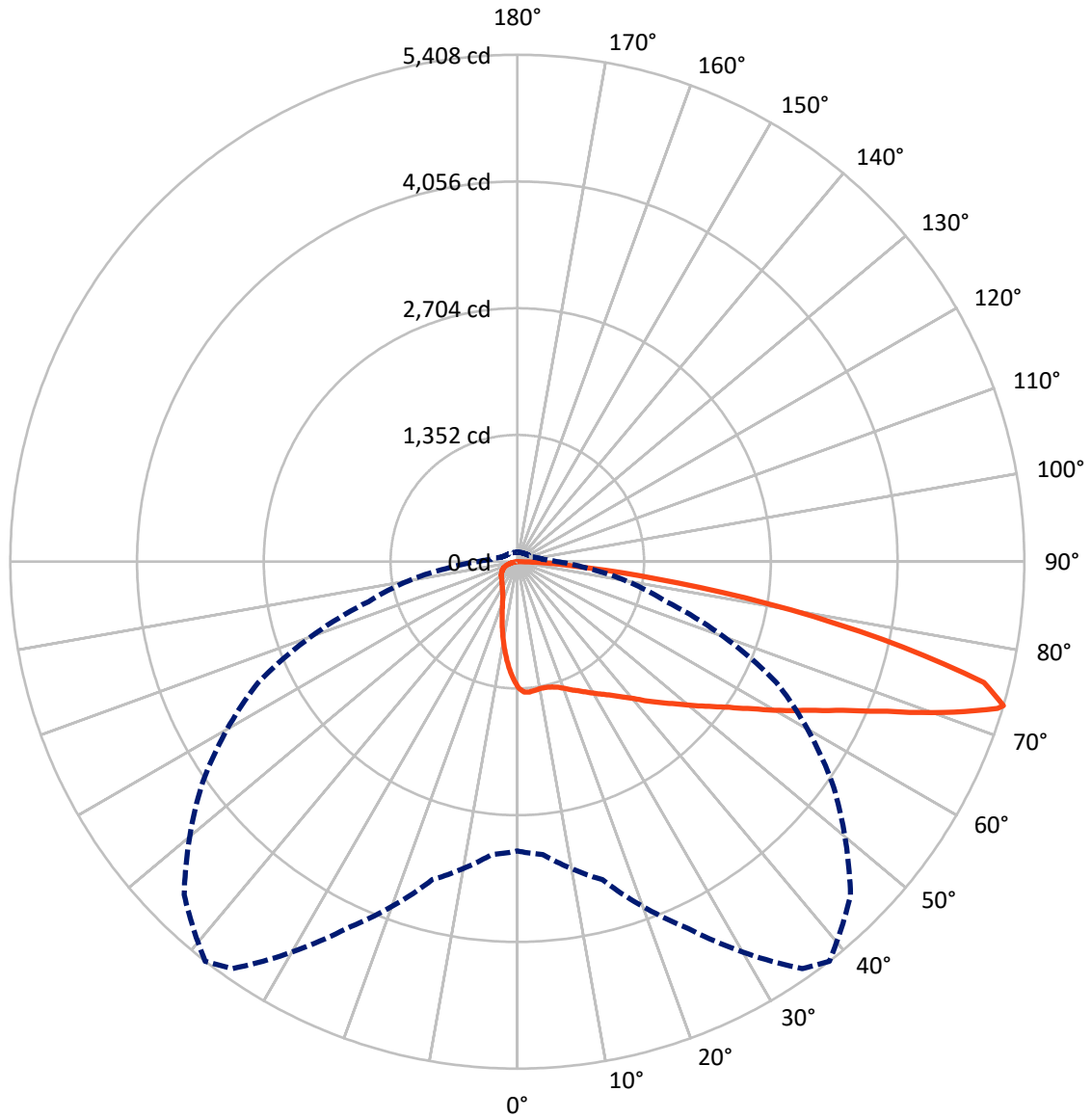
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1030.0	0.0	1030.0
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	6632.0	0.0	6632.0
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	7662.0	0.0	7662.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.5	1.5
10°-20°	301.3	3.9
20°-30°	469.2	6.1
30°-40°	688.2	9.0
40°-50°	1020.9	13.3
50°-60°	1446.3	18.9
60°-70°	1834.7	23.9
70°-80°	1527.3	19.9
80°-90°	256.6	3.3
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°	7662.0	100.0
0°-180°	7662.0	100.0

**Coefficient of Utilization**



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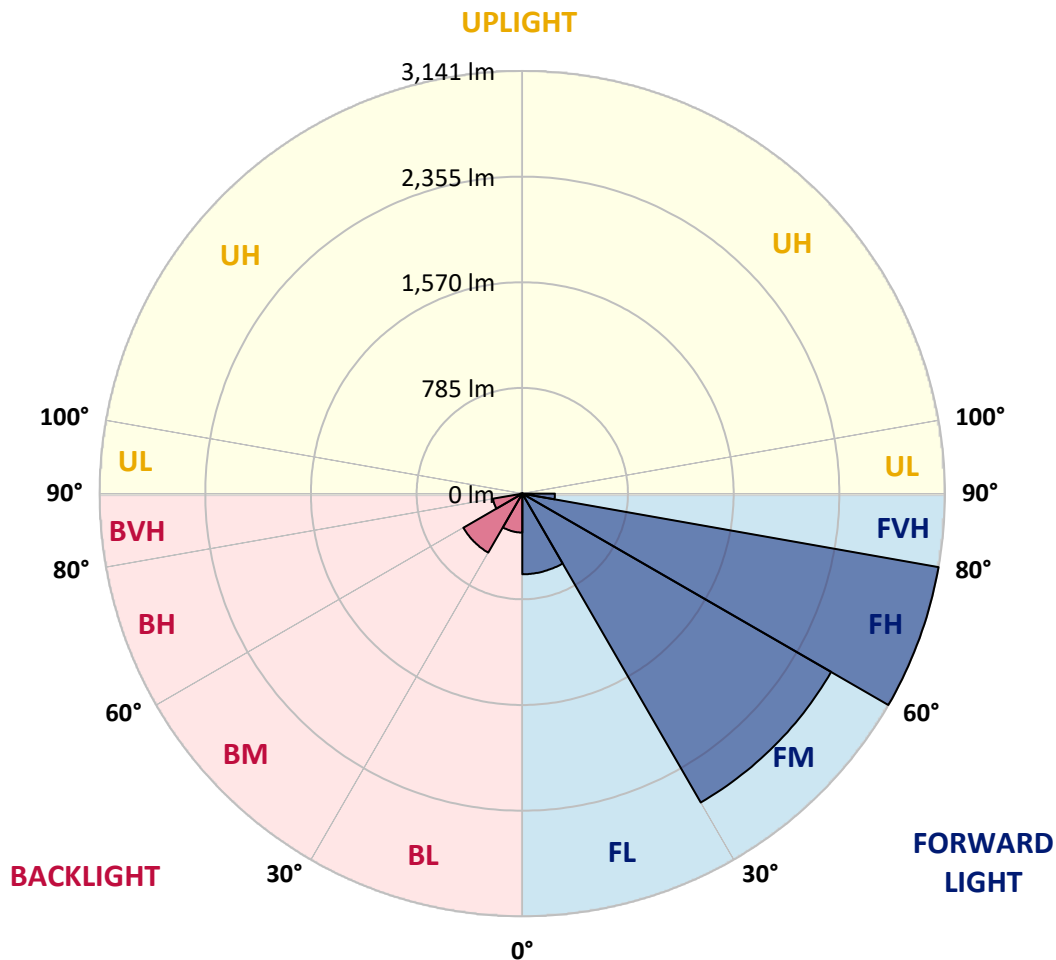
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	599.0	7.8			
FM (30°-60°)	2649.7	34.6			
FH (60°-80°)	3140.6	41.0			G2/5000
FVH (80°-90°)	242.7	3.2			G3/500
BL (0°-30°)	289.0	3.8	B1/500		
BM (30°-60°)	505.7	6.6	B1/1000		
BH (60°-80°)	221.4	2.9	B1/500		G1/500
BVH (80°-90°)	13.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1
2.5°	1400.2	1407.1	1403.6	1398.9	1395.8	1392.8	1388.5	1375.9	1366.0	1355.2	1338.3
5°	1410.6	1414.9	1411.9	1405.8	1398.9	1395.8	1387.6	1371.2	1355.2	1337.0	1311.9
7.5°	1404.5	1406.2	1402.8	1395.4	1389.4	1383.7	1374.2	1356.0	1336.6	1314.5	1281.6
10°	1382.9	1389.4	1389.4	1383.3	1377.2	1374.2	1364.7	1347.4	1329.6	1304.5	1265.6
12.5°	1365.1	1372.0	1377.7	1375.9	1375.5	1375.5	1368.2	1355.2	1334.4	1310.6	1264.3
15°	1353.0	1361.2	1373.3	1380.3	1384.6	1385.9	1382.9	1371.6	1350.4	1322.7	1269.5
17.5°	1350.4	1360.4	1382.4	1397.6	1408.8	1408.4	1407.5	1391.9	1368.6	1340.0	1276.0
20°	1362.1	1375.1	1405.8	1429.6	1446.0	1443.0	1438.2	1417.9	1390.7	1358.6	1282.0
22.5°	1397.1	1410.6	1444.3	1470.3	1486.3	1486.3	1472.0	1445.2	1416.2	1380.3	1290.3
25°	1447.3	1462.0	1498.0	1524.3	1531.7	1526.1	1511.8	1479.4	1446.0	1411.4	1307.6
27.5°	1508.8	1526.5	1559.8	1581.9	1579.7	1575.4	1560.7	1519.2	1485.8	1454.3	1337.0
30°	1585.4	1598.3	1633.0	1638.1	1630.4	1629.5	1608.7	1567.2	1536.0	1511.8	1379.0
32.5°	1657.6	1669.3	1697.0	1699.2	1685.3	1687.0	1667.6	1629.5	1611.8	1603.1	1449.5
35°	1734.2	1740.3	1764.1	1761.5	1752.4	1751.1	1743.3	1706.9	1712.6	1728.1	1549.4
37.5°	1798.2	1810.4	1823.8	1825.9	1825.5	1829.8	1835.0	1817.7	1850.2	1899.1	1680.5
40°	1857.1	1867.5	1887.4	1894.3	1911.2	1919.8	1937.6	1938.0	2012.9	2093.3	1841.9
42.5°	1896.9	1914.6	1951.8	1964.4	2005.5	2031.5	2057.9	2086.0	2194.6	2298.0	2032.3
45°	1931.5	1954.9	2016.7	2055.7	2111.5	2143.1	2198.9	2257.8	2414.0	2549.4	2225.7
47.5°	1983.9	2004.6	2075.6	2144.4	2228.8	2265.1	2348.6	2436.5	2640.7	2789.1	2410.9
50°	2056.6	2069.1	2141.4	2253.4	2361.2	2407.9	2518.2	2645.0	2883.0	3025.8	2573.6
52.5°	2149.6	2154.8	2212.3	2361.6	2503.5	2561.5	2707.7	2855.7	3095.0	3231.3	2702.6
55°	2259.5	2250.8	2295.8	2476.3	2666.2	2741.9	2899.0	3069.0	3333.4	3397.4	2796.4
57.5°	2368.1	2354.7	2390.6	2615.6	2867.0	2958.3	3141.3	3288.8	3546.3	3552.8	2862.2
60°	2483.2	2473.2	2516.1	2779.1	3113.2	3221.3	3390.5	3516.9	3752.2	3660.9	2872.6
62.5°	2601.3	2585.3	2646.3	2963.0	3390.5	3488.7	3652.7	3759.2	3954.3	3701.2	2772.6
65°	2716.0	2708.6	2802.9	3181.5	3706.4	3818.0	3977.2	4049.5	4116.1	3640.6	2524.7
67.5°	2838.0	2852.7	3003.3	3473.2	4118.3	4258.5	4430.3	4362.3	4162.4	3353.7	2126.2
70°	3024.0	3033.6	3266.3	3855.2	4649.2	4818.4	4901.5	4473.5	3939.2	2809.0	1598.3
72.5°	3104.1	3146.1	3501.3	4256.3	5252.4	5355.8	5059.8	4225.6	3281.5	1908.1	839.8
73°	3086.3	3136.5	3512.1	4317.3	5299.5	5408.1	5026.1	4098.0	3050.4	1643.3	720.0
75°	2865.2	2927.1	3371.5	4266.3	5207.8	5142.9	4483.5	3492.6	2061.3	747.2	328.0
77.5°	2260.8	2278.5	2671.4	3445.0	4101.0	3980.7	3355.5	2182.9	842.0	277.8	186.1
80°	1134.1	1199.4	1505.7	1973.5	2742.4	2703.0	2118.0	1032.4	350.9	163.1	123.3
82.5°	545.6	591.9	733.4	962.3	1515.3	1479.4	1048.8	564.2	222.8	95.2	72.7
85°	351.3	386.0	466.9	459.1	623.1	594.9	471.2	427.1	132.0	49.8	50.6
87.5°	231.9	254.0	304.6	243.6	226.7	205.1	208.1	240.6	26.0	19.0	6.9
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°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1
2.5°	1331.4	1325.7	1307.1	1289.0	1271.7	1255.2	1244.4	1230.1	1220.6	1223.2	1227.1
5°	1298.1	1285.5	1252.6	1220.6	1190.3	1154.4	1125.4	1102.0	1084.3	1077.8	1076.5
7.5°	1263.0	1241.8	1194.6	1139.7	1088.2	1043.6	992.1	966.6	936.8	926.4	922.9
10°	1241.8	1213.2	1147.0	1070.5	993.0	919.0	863.2	817.8	776.7	768.9	765.0
12.5°	1235.7	1198.1	1109.0	1010.3	907.3	816.5	733.8	674.1	634.3	625.2	611.8
15°	1232.3	1185.6	1073.5	949.7	819.1	708.3	621.3	551.7	515.3	491.1	491.5
17.5°	1229.3	1171.3	1033.7	883.5	742.9	615.3	519.2	456.5	423.2	410.2	408.9
20°	1224.9	1154.4	987.8	813.9	656.0	530.5	443.5	396.8	374.3	363.5	363.0
22.5°	1223.2	1138.0	942.8	742.9	578.9	465.1	393.3	360.4	346.1	338.8	338.8
25°	1227.5	1126.3	895.7	675.4	510.6	409.3	358.7	336.2	328.0	324.1	322.8
27.5°	1240.9	1121.1	848.9	607.9	447.8	371.2	335.3	319.8	313.7	310.7	311.1
30°	1266.5	1120.7	803.1	541.3	401.1	342.3	316.7	305.9	301.1	299.4	299.0
32.5°	1307.6	1130.2	758.1	486.3	361.7	318.0	299.4	291.6	289.5	288.2	287.7
35°	1377.2	1157.0	713.5	436.1	331.4	296.4	283.0	279.1	276.1	277.4	277.8
37.5°	1471.1	1203.3	671.1	396.8	308.5	280.4	269.1	265.7	263.9	265.2	266.5
40°	1597.0	1269.9	635.6	365.2	292.1	267.0	257.0	254.0	252.3	254.4	254.9
42.5°	1735.9	1346.9	606.2	340.5	278.6	255.7	246.2	242.7	241.4	242.7	243.2
45°	1878.7	1436.5	591.0	322.8	267.4	247.5	237.5	233.6	230.6	229.8	231.1
47.5°	2019.3	1514.4	590.6	312.0	258.3	240.1	229.3	225.0	221.1	218.9	218.5
50°	2134.0	1576.3	601.0	307.2	250.5	231.9	221.1	216.8	211.6	207.3	208.1
52.5°	2220.5	1616.5	605.8	305.0	246.2	223.3	212.4	208.6	202.5	196.9	196.9
55°	2276.4	1626.0	594.1	302.9	242.7	214.2	202.5	199.0	193.0	187.4	187.4
57.5°	2295.4	1596.6	552.1	297.7	239.3	206.4	192.5	189.5	184.8	179.1	178.3
60°	2251.3	1497.1	478.5	282.1	232.4	198.2	181.7	180.4	178.7	173.9	173.5
62.5°	2081.2	1285.9	398.5	261.8	220.7	189.5	171.8	173.9	175.2	172.6	172.2
65°	1798.2	1044.1	340.5	233.6	205.1	177.4	161.0	166.6	170.0	170.0	169.2
67.5°	1458.6	801.8	286.9	209.4	185.6	161.0	148.8	153.2	155.8	154.9	157.1
70°	1036.7	543.0	233.6	181.7	161.0	142.4	133.3	133.3	131.5	130.7	130.7
72.5°	502.8	310.2	189.5	151.9	137.2	121.6	114.2	111.2	107.7	107.3	105.1
73°	420.1	278.2	180.9	146.2	131.5	118.6	110.3	105.6	103.4	101.7	101.2
75°	255.7	211.2	151.0	123.3	112.1	102.1	94.8	90.4	88.3	87.0	86.5
77.5°	168.3	157.5	117.3	94.3	85.7	79.6	76.6	72.3	71.0	69.2	69.2
80°	125.5	120.3	83.9	66.6	61.4	56.2	55.4	54.5	51.1	48.9	48.0
82.5°	80.9	85.7	57.1	44.6	38.9	34.6	35.0	36.3	32.9	29.9	29.0
85°	57.5	61.9	34.6	20.3	16.4	14.3	16.0	14.3	14.7	11.7	9.5
87.5°	9.5	16.4	6.1	2.6	1.3	0.9	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)