

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: P526775

Luminaire Tested: **GALN-SA1D-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-730-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4161 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

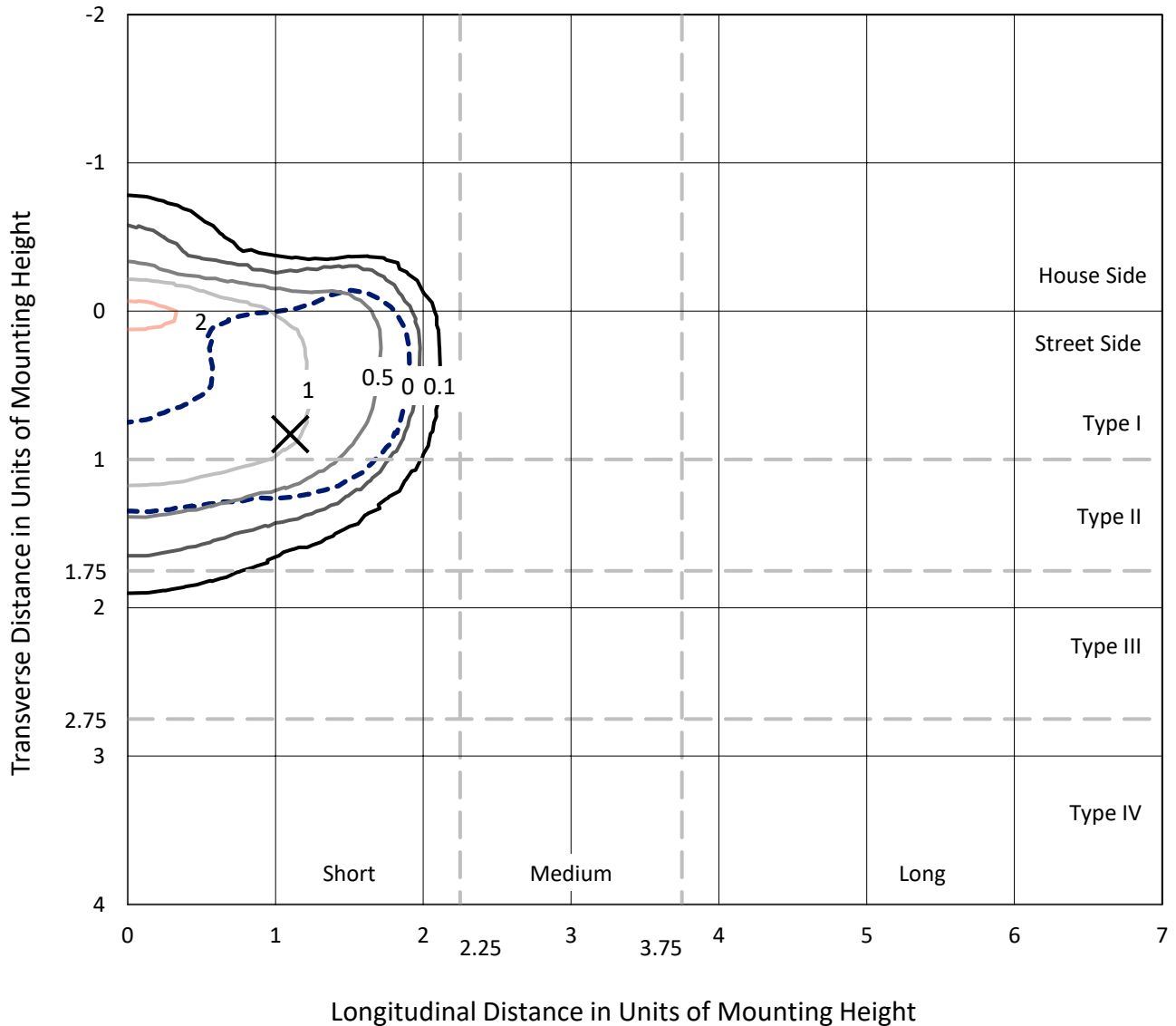
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

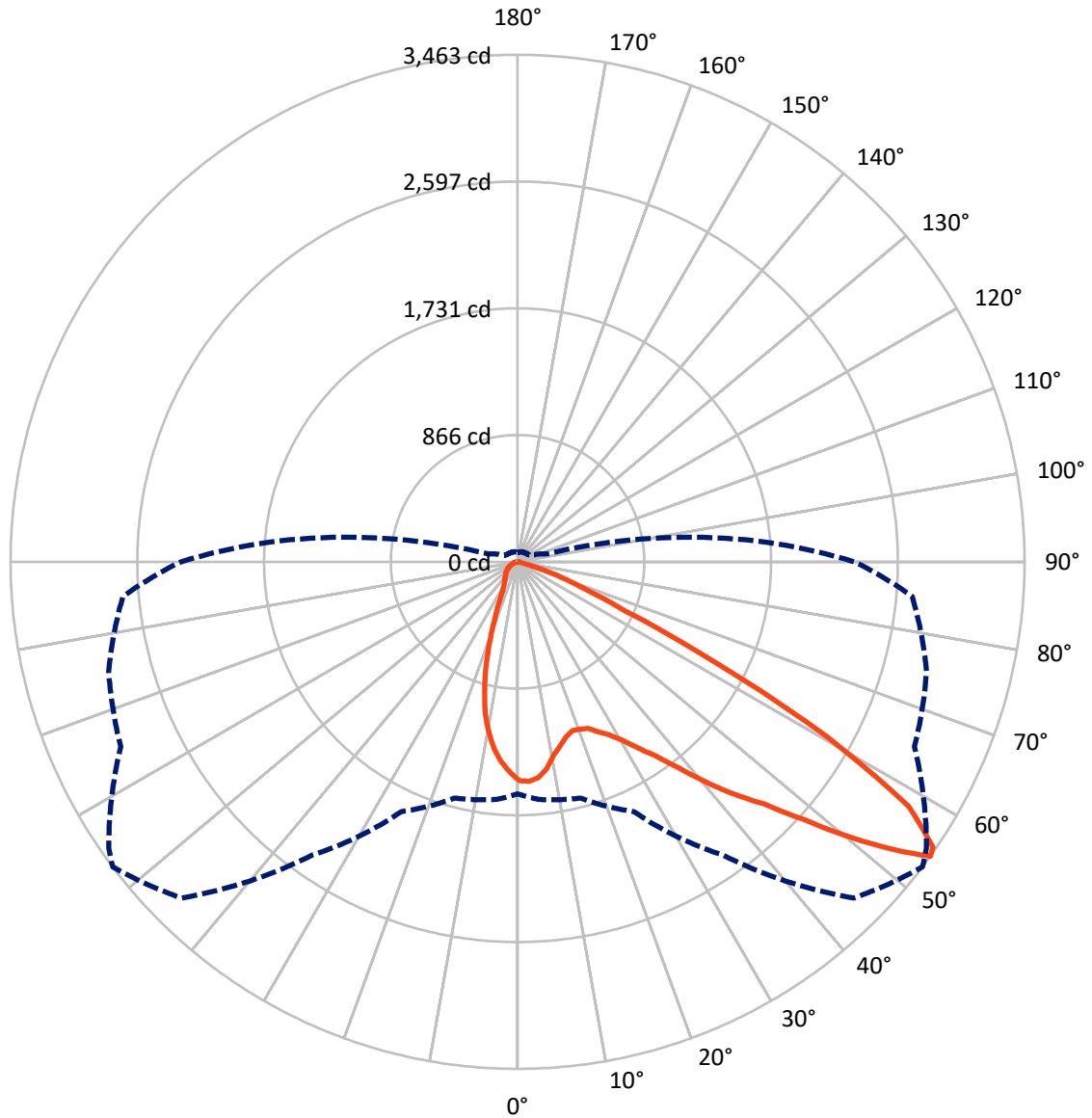
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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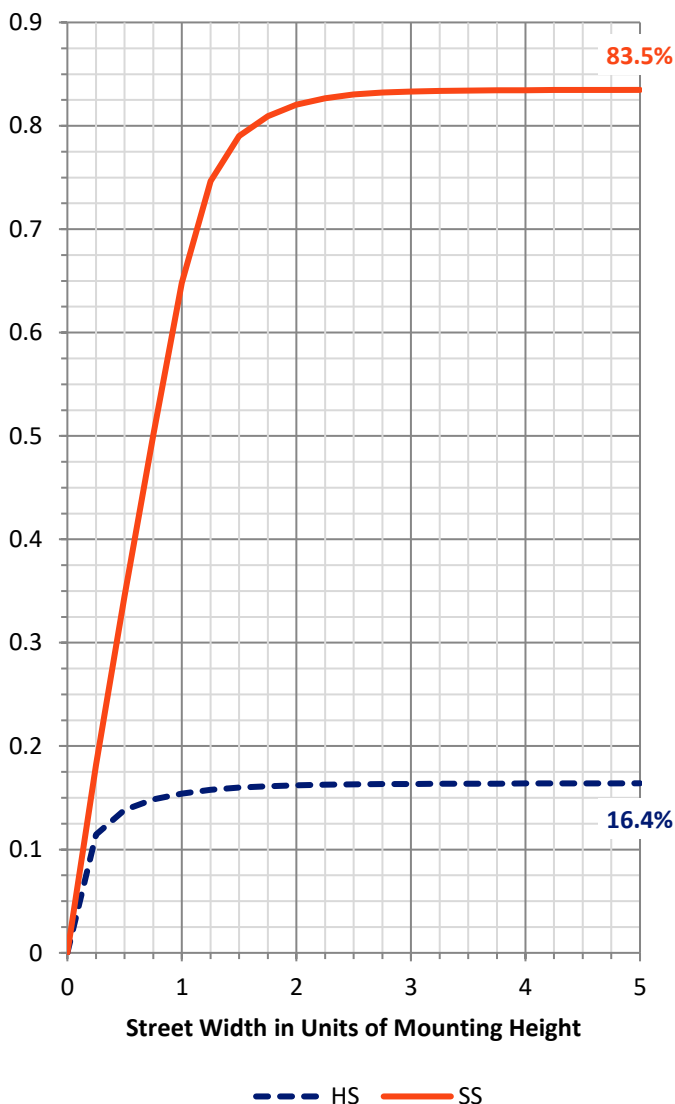
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	688.5	0.0	688.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3472.6	0.0	3472.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	4161.0	0.0	4161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	3.1
10°-20°	294.0	7.1
20°-30°	417.8	10.0
30°-40°	644.8	15.5
40°-50°	1011.0	24.3
50°-60°	1174.4	28.2
60°-70°	443.8	10.7
70°-80°	42.2	1.0
80°-90°	4.8	0.1
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°	4161.0	100.0
0°-180°	4161.0	100.0

Coefficient of Utilization

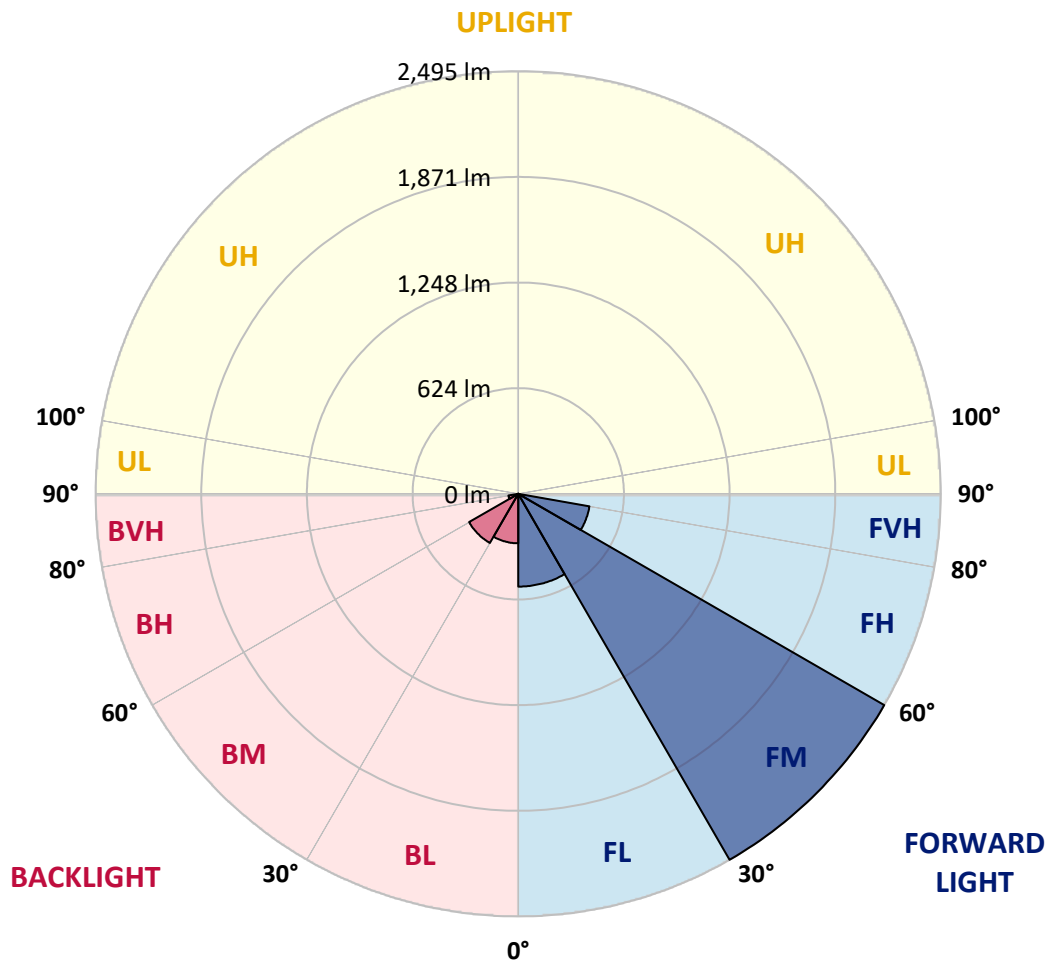


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	547.9	13.2			
FM (30°-60°)	2495.2	60.0			
FH (60°-80°)	427.0	10.3			G0/660
FVH (80°-90°)	2.5	0.1			G0/10
BL (0°-30°)	292.1	7.0	B1/500		
BM (30°-60°)	335.0	8.1	B1/1000		
BH (60°-80°)	59.0	1.4	B0/110		G0/110
BVH (80°-90°)	2.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6
2.5°	1486.8	1473.6	1486.8	1488.4	1497.7	1506.2	1500.8	1513.2	1506.2	1498.4	1496.1
5°	1366.7	1384.5	1385.3	1413.2	1407.0	1458.1	1480.6	1474.4	1512.4	1510.1	1504.6
7.5°	1258.9	1251.9	1261.2	1293.8	1334.9	1393.8	1426.3	1425.6	1479.8	1518.6	1514.7
10°	1158.9	1158.1	1177.5	1203.1	1238.0	1300.0	1344.9	1367.4	1451.9	1510.8	1519.4
12.5°	1091.5	1088.4	1109.3	1130.2	1185.3	1233.3	1290.7	1301.5	1398.4	1483.7	1497.7
15°	1047.3	1054.3	1055.8	1096.1	1131.0	1194.6	1239.5	1262.0	1373.6	1462.0	1515.5
17.5°	1039.5	1048.8	1049.6	1082.9	1120.1	1173.6	1213.2	1243.4	1352.7	1472.9	1516.3
20°	1055.0	1049.6	1054.3	1075.2	1111.6	1162.8	1220.1	1230.2	1345.7	1478.3	1524.8
22.5°	1099.2	1097.7	1086.0	1103.1	1128.7	1182.2	1236.4	1251.9	1365.9	1506.2	1531.8
25°	1148.1	1156.6	1145.7	1143.4	1161.2	1213.9	1286.0	1306.2	1433.3	1556.6	1553.5
27.5°	1239.5	1231.0	1231.0	1220.1	1215.5	1241.1	1339.5	1372.9	1508.5	1621.7	1578.3
30°	1327.1	1336.4	1329.4	1333.3	1302.3	1300.0	1415.5	1456.6	1641.8	1720.9	1631.0
32.5°	1465.9	1453.5	1465.1	1455.0	1413.9	1372.1	1518.6	1561.2	1803.1	1834.9	1710.1
35°	1581.4	1576.0	1625.6	1624.0	1557.4	1516.3	1627.9	1691.5	1915.5	1971.3	1803.1
37.5°	1745.7	1735.6	1792.2	1819.4	1759.7	1698.4	1784.5	1858.1	2020.1	2080.6	1898.4
40°	1914.7	1940.3	2016.3	2061.2	1997.7	1916.3	1976.0	1998.4	2089.9	2151.9	1963.5
42.5°	2128.7	2165.9	2243.4	2282.2	2276.7	2188.4	2170.5	2169.7	2140.3	2131.8	2011.6
45°	2334.1	2320.1	2439.5	2524.0	2592.2	2566.6	2358.1	2334.9	2220.1	2162.0	2024.0
47.5°	2424.0	2419.4	2500.8	2651.1	2883.7	2915.5	2631.0	2541.1	2355.0	2289.1	2091.5
50°	2307.7	2331.8	2412.4	2579.0	2935.6	3178.3	2965.9	2844.9	2512.4	2444.2	2251.1
52.5°	1927.9	1944.2	2020.9	2232.5	2758.9	3333.3	3286.8	3217.0	2801.5	2688.3	2529.4
54°	1585.3	1628.7	1670.5	1882.9	2444.2	3247.3	3462.8	3409.3	2989.9	2891.4	2704.6
55°	1380.6	1406.2	1436.4	1648.0	2226.3	3101.5	3442.6	3447.3	3116.3	2955.0	2822.5
57.5°	1008.5	1026.3	995.3	1089.1	1528.7	2518.6	3148.8	3274.4	3286.8	3050.4	2894.5
60°	770.5	778.3	743.4	758.1	950.4	1728.7	2435.6	2586.8	2965.1	2665.9	2451.9
62.5°	597.7	599.2	598.4	624.0	655.0	1017.0	1523.2	1657.4	2044.2	1893.0	1665.1
65°	440.3	433.3	445.7	523.3	558.9	639.5	802.3	900.0	1110.8	938.0	670.5
67.5°	285.3	287.6	300.0	389.1	479.1	490.7	493.8	486.0	486.8	268.2	168.2
70°	171.3	175.2	171.3	220.2	342.6	351.9	321.7	314.0	245.0	63.6	62.8
72.5°	101.5	96.1	86.0	94.6	142.6	170.5	153.5	152.7	96.1	37.2	37.2
75°	42.6	38.8	31.8	28.7	38.0	36.4	36.4	32.6	25.6	24.8	23.3
77.5°	8.5	8.5	6.2	7.0	9.3	10.9	13.2	13.2	15.5	15.5	14.7
80°	0.0	0.8	2.3	4.7	7.0	10.1	11.6	11.6	13.2	13.2	10.9
82.5°	0.0	0.8	2.3	4.7	6.2	9.3	11.6	11.6	13.2	14.0	11.6
85°	0.0	0.8	2.3	3.9	6.2	7.8	7.8	7.0	5.4	4.7	3.1
87.5°	0.0	0.0	0.8	1.6	0.8	1.6	1.6	1.6	1.6	1.6	1.6
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°	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6
2.5°	1501.5	1500.8	1482.2	1451.9	1444.9	1419.4	1416.3	1400.8	1409.3	1380.6	1377.5
5°	1489.1	1479.8	1457.4	1438.0	1381.4	1341.1	1309.3	1270.5	1248.1	1251.9	1237.2
7.5°	1507.0	1482.9	1443.4	1376.0	1307.0	1236.4	1198.4	1119.4	1090.7	1048.1	1041.9
10°	1488.4	1470.5	1409.3	1297.7	1202.3	1100.8	1011.6	924.0	857.4	828.7	822.5
12.5°	1486.8	1455.8	1353.5	1229.4	1091.5	945.7	816.3	707.0	641.1	603.9	595.3
15°	1462.8	1425.6	1290.7	1124.0	933.3	751.9	610.8	505.4	455.0	433.3	439.5
17.5°	1465.1	1409.3	1227.9	1012.4	777.5	551.9	417.1	362.8	349.6	355.0	355.0
20°	1462.8	1372.9	1151.9	883.7	595.3	382.9	306.2	286.8	295.3	312.4	308.5
22.5°	1450.4	1355.8	1082.2	748.1	438.0	283.7	245.7	246.5	259.7	280.6	285.3
25°	1459.7	1317.8	993.8	610.8	319.4	226.4	213.2	218.6	232.6	248.1	251.2
27.5°	1452.7	1290.7	901.5	474.4	233.3	194.6	193.8	200.0	206.2	217.8	217.8
30°	1460.5	1265.9	810.8	352.7	192.2	178.3	175.2	179.8	186.0	188.4	187.6
32.5°	1489.1	1247.3	706.2	263.6	169.8	162.8	162.8	162.8	162.0	165.1	165.9
35°	1551.9	1250.4	613.9	203.9	155.0	149.6	147.3	144.2	142.6	144.2	145.0
37.5°	1620.1	1248.8	518.6	173.6	144.2	139.5	134.1	129.5	128.7	130.2	127.9
40°	1650.4	1263.6	430.2	155.8	134.1	128.7	120.2	116.3	117.1	118.6	117.1
42.5°	1691.5	1268.2	372.9	141.9	124.8	116.3	110.9	106.2	105.4	107.8	107.0
45°	1690.7	1241.8	312.4	134.1	116.3	107.0	100.0	96.1	96.1	97.7	98.4
47.5°	1740.3	1238.0	268.2	127.1	110.1	100.8	92.2	89.1	88.4	88.4	86.8
50°	1855.8	1292.2	234.1	119.4	102.3	93.8	86.8	82.9	79.8	78.3	77.5
52.5°	2081.4	1461.2	207.8	110.1	93.8	86.8	80.6	77.5	73.6	69.8	69.0
54°	2300.0	1635.6	206.2	102.3	86.8	82.2	76.7	75.2	70.5	65.1	63.6
55°	2398.4	1737.2	211.6	96.1	82.2	79.1	74.4	72.9	68.2	62.0	61.2
57.5°	2479.8	1776.7	208.5	79.8	74.4	73.6	69.8	67.4	62.0	53.5	51.9
60°	1996.1	1343.4	149.6	70.5	68.2	66.7	63.6	62.0	55.0	45.7	45.0
62.5°	1261.2	772.9	95.3	62.0	59.7	57.4	53.5	51.9	45.7	36.4	34.1
65°	537.2	320.2	64.3	55.0	51.2	47.3	44.2	41.9	36.4	27.1	26.4
67.5°	139.5	114.0	53.5	48.1	42.6	37.2	34.9	31.0	24.8	18.6	17.8
70°	62.8	57.4	45.0	40.3	34.1	28.7	25.6	21.7	16.3	12.4	11.6
72.5°	37.2	36.4	34.1	30.2	25.6	21.7	18.6	14.7	10.9	7.0	7.0
75°	23.3	22.5	23.3	20.9	17.8	16.3	14.0	10.1	6.2	3.1	3.1
77.5°	14.0	14.0	14.0	13.2	12.4	12.4	10.1	6.2	3.1	0.8	0.8
80°	10.9	10.9	11.6	10.9	10.9	10.9	8.5	4.7	1.6	0.0	0.0
82.5°	10.9	11.6	13.2	12.4	10.9	9.3	7.8	4.7	1.6	0.0	0.0
85°	3.1	2.3	3.9	5.4	7.8	7.0	5.4	3.9	1.6	0.0	0.0
87.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	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)