

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: P382958

Luminaire Tested: **GLEON-SA3A-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9412.4 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

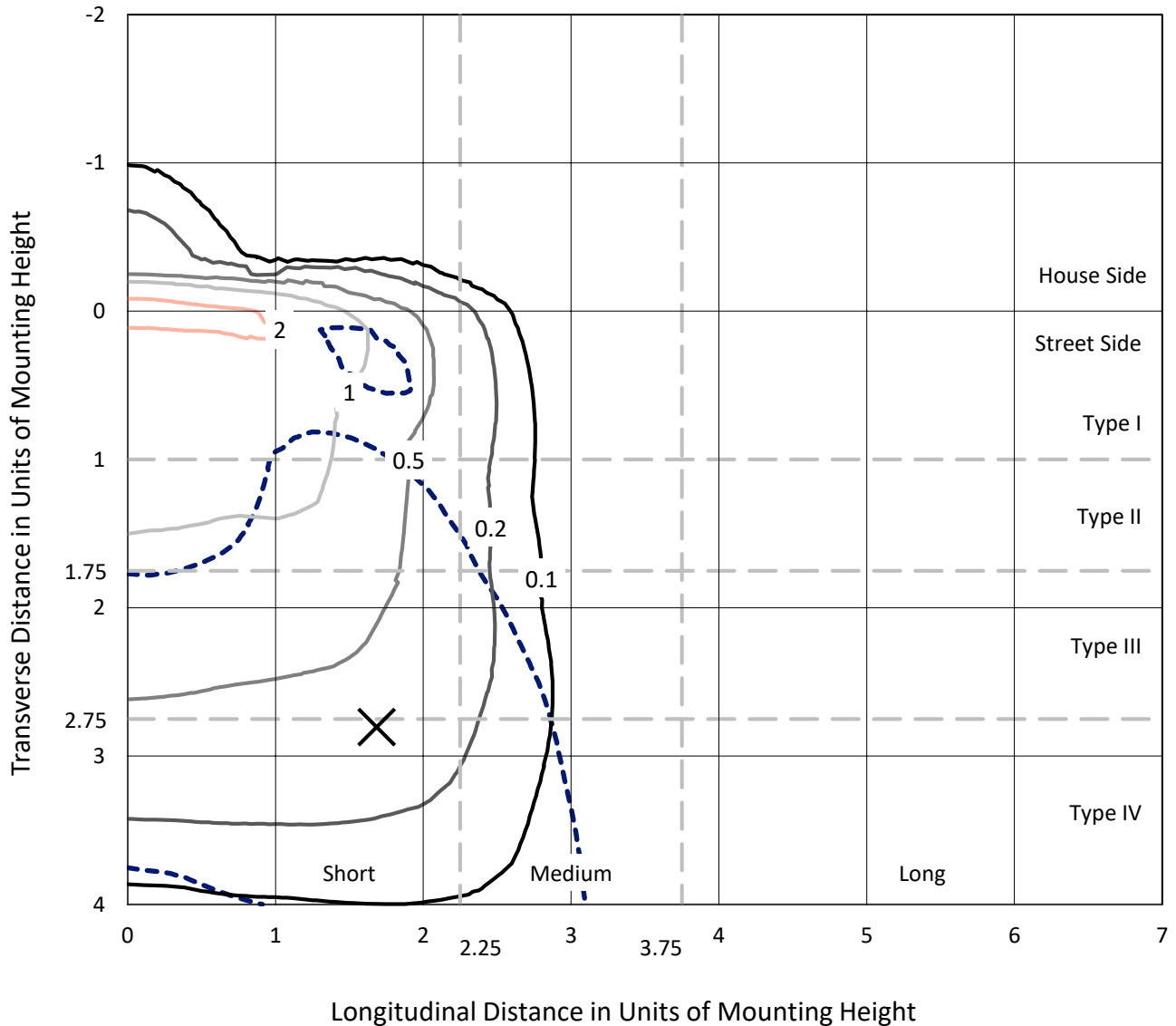
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382958
 CATALOG NUMBER: GLEON-SA3A-735-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

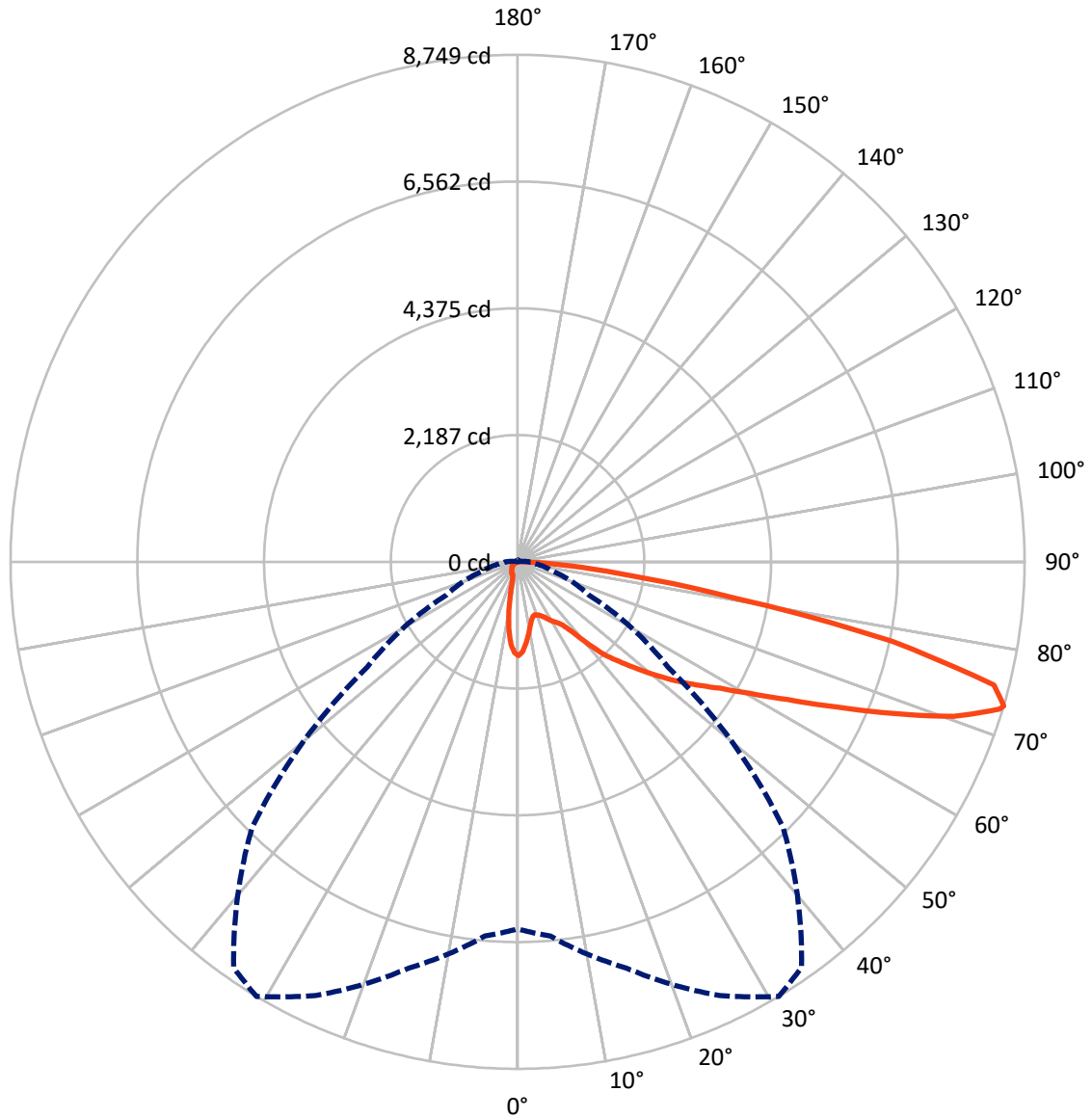
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P382958
CATALOG NUMBER: GLEON-SA3A-735-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P382958
 CATALOG NUMBER: GLEON-SA3A-735-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	858.0	0.0	858.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	8554.4	0.0	8554.4
	% Fixture	90.9	0.0	90.9
Total	Lumens	9412.4	0.0	9412.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	1.4
10°-20°	291.5	3.1
20°-30°	436.8	4.6
30°-40°	695.0	7.4
40°-50°	1241.0	13.2
50°-60°	1925.7	20.5
60°-70°	2560.0	27.2
70°-80°	1925.6	20.5
80°-90°	202.3	2.1
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°	9412.4	100.0
0°-180°	9412.4	100.0

Coefficient of Utilization

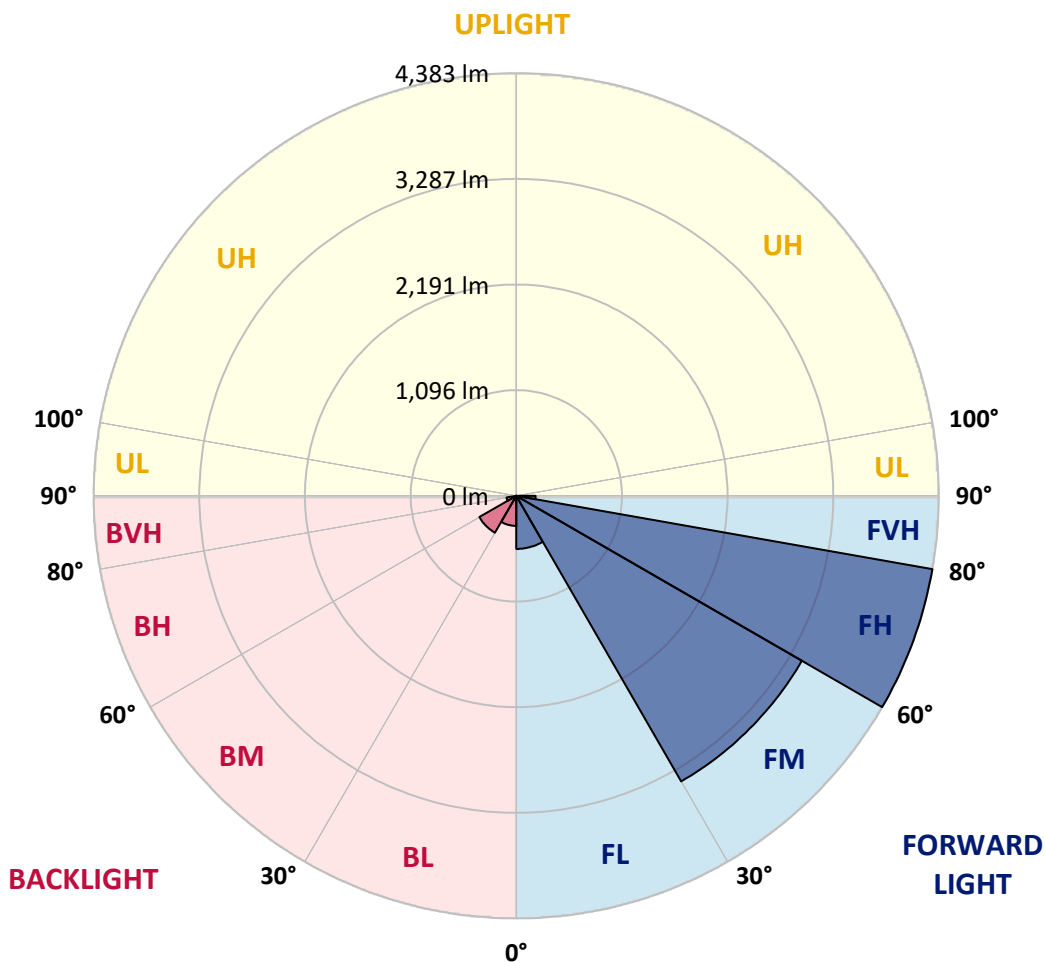


REPORT NUMBER: P382958
 CATALOG NUMBER: GLEON-SA3A-735-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	550.6	5.9			
FM (30°-60°)	3420.1	36.3			
FH (60°-80°)	4383.0	46.6			G2/5000
FVH (80°-90°)	200.6	2.1			G2/225
BL (0°-30°)	312.0	3.3	B1/500		
BM (30°-60°)	441.6	4.7	B1/1000		
BH (60°-80°)	102.6	1.1	B0/110		G0/110
BVH (80°-90°)	1.7	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 IV Short





REPORT NUMBER: P382958

CATALOG NUMBER: GLEON-SA3A-735-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4
2.5°	1534.6	1541.2	1548.0	1549.4	1560.9	1561.4	1577.9	1590.4	1602.8	1614.8	1618.9
5°	1377.1	1387.7	1400.2	1412.6	1437.0	1446.7	1487.2	1528.7	1568.3	1606.1	1624.5
7.5°	1209.1	1221.0	1238.5	1269.3	1296.5	1315.4	1379.4	1453.1	1526.8	1596.4	1636.4
10°	1055.6	1066.7	1085.2	1117.9	1159.8	1185.6	1271.7	1373.9	1482.2	1587.6	1654.4
12.5°	958.0	964.0	974.1	1009.1	1046.9	1075.9	1177.3	1303.9	1445.3	1587.2	1683.4
15°	940.0	941.9	933.6	949.2	978.8	1006.8	1109.6	1247.2	1417.3	1594.5	1721.2
17.5°	968.6	967.7	940.0	938.3	961.7	984.7	1076.4	1208.1	1397.4	1611.6	1770.0
20°	1011.9	1008.7	960.8	952.0	976.9	998.5	1074.1	1193.4	1390.1	1640.2	1829.5
22.5°	1069.5	1063.9	988.8	979.7	1006.4	1029.0	1102.7	1207.7	1396.5	1678.4	1898.5
25°	1140.9	1132.6	1037.3	1027.1	1054.2	1076.9	1153.7	1248.6	1415.9	1724.9	1986.1
27.5°	1221.4	1209.5	1114.6	1088.3	1119.3	1142.7	1221.9	1311.2	1446.2	1774.1	2093.4
30°	1297.5	1281.8	1196.1	1152.9	1190.6	1216.9	1295.6	1385.9	1495.0	1850.1	2240.3
32.5°	1373.9	1356.4	1269.0	1217.3	1251.4	1279.9	1371.6	1488.6	1586.7	1966.2	2435.5
35°	1549.9	1531.5	1424.1	1338.9	1338.4	1354.6	1478.0	1629.1	1707.8	2127.9	2668.6
37.5°	1846.0	1835.4	1733.1	1571.5	1528.2	1510.2	1623.1	1796.8	1881.9	2350.4	2931.6
40°	2170.3	2161.1	2046.3	1899.9	1834.0	1789.9	1831.3	2030.2	2127.9	2622.1	3200.1
42.5°	2536.4	2492.7	2288.2	2244.5	2185.5	2151.9	2114.5	2318.2	2430.0	2917.8	3466.4
45°	2869.0	2795.3	2530.0	2463.7	2450.3	2458.6	2479.3	2705.0	2770.0	3269.3	3731.7
47.5°	3067.0	3009.0	2805.4	2741.8	2738.2	2793.0	2949.6	3142.1	3108.5	3575.6	3965.1
50°	3255.4	3202.9	3033.9	3049.5	3066.6	3141.2	3483.4	3591.7	3417.6	3853.3	4179.4
52.5°	3407.9	3327.8	3239.3	3327.3	3411.0	3531.3	4034.3	3995.1	3636.8	4074.3	4362.6
55°	3495.8	3459.5	3502.2	3590.7	3748.3	3943.5	4554.2	4330.9	3797.1	4276.1	4484.7
57.5°	3818.2	3746.9	3832.1	3908.5	4113.9	4387.0	4999.6	4581.0	3912.7	4400.9	4512.8
60°	4208.4	4150.8	4201.0	4328.2	4605.4	4926.4	5416.0	4785.0	3973.0	4481.0	4440.0
62.5°	4829.2	4753.2	4721.9	4864.3	5231.8	5582.3	5732.0	4926.4	3959.6	4445.5	4190.4
65°	5661.0	5582.3	5442.3	5571.2	6038.8	6286.1	6085.2	4956.4	3867.5	4158.6	3559.4
67.5°	6513.1	6456.0	6336.3	6553.6	6975.5	7055.3	6458.8	4883.5	3570.9	3371.9	2514.8
70°	7075.9	7051.5	7129.4	7610.3	7986.5	7963.5	6801.4	4492.6	2783.3	2073.5	1244.1
72.5°	6670.2	6787.2	7362.0	8233.9	8693.6	8505.6	6625.5	3449.8	1590.9	797.8	359.7
73°	6334.0	6483.7	7257.4	8257.3	8749.3	8543.4	6477.7	3166.5	1356.0	629.6	272.7
75°	4406.4	4590.2	6008.3	7690.4	8488.5	8140.0	5399.4	1938.2	628.2	279.1	110.1
77.5°	2139.4	2275.3	3308.4	5556.5	6601.6	6359.8	3361.3	722.2	283.7	174.6	50.7
80°	798.6	888.0	1436.1	2828.0	3815.1	3915.0	1478.5	273.1	188.8	140.5	25.8
82.5°	209.1	233.1	529.7	1261.0	1955.2	2046.3	466.1	137.7	138.1	115.6	15.6
85°	66.8	76.5	165.3	566.1	921.2	808.8	121.6	66.8	100.4	86.2	8.8
87.5°	8.3	10.6	52.5	133.1	203.1	112.8	18.9	19.8	42.9	47.9	5.0
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: P382958

CATALOG NUMBER: GLEON-SA3A-735-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4
2.5°	1623.1	1620.8	1621.3	1609.2	1601.4	1585.8	1569.7	1562.3	1554.5	1551.2	1554.5
5°	1631.4	1627.2	1615.3	1578.4	1539.3	1488.6	1441.2	1405.2	1360.2	1347.7	1360.5
7.5°	1644.3	1636.0	1601.0	1525.9	1438.9	1342.2	1233.5	1154.2	1089.3	1047.3	1062.5
10°	1663.2	1647.5	1577.0	1449.5	1293.8	1122.4	968.2	847.9	762.8	727.7	726.3
12.5°	1695.0	1665.5	1547.6	1350.0	1116.5	888.0	685.8	555.5	486.4	441.7	440.8
15°	1730.0	1686.7	1510.2	1230.7	910.1	636.1	441.7	342.7	298.0	283.7	281.9
17.5°	1772.8	1711.1	1461.9	1083.8	694.1	421.4	288.3	259.8	257.9	256.5	256.5
20°	1826.7	1740.1	1399.7	915.6	492.3	281.4	245.0	246.9	247.8	245.9	246.4
22.5°	1889.3	1769.6	1325.6	735.1	333.0	235.4	234.5	236.7	237.6	236.7	237.2
25°	1962.1	1803.7	1235.3	545.8	240.4	223.4	225.7	228.9	231.2	231.2	231.2
27.5°	2052.4	1845.1	1126.6	380.9	207.7	210.9	217.4	223.4	226.6	227.5	227.5
30°	2169.9	1896.7	996.3	261.1	188.8	194.3	206.3	217.9	223.9	224.8	225.2
32.5°	2318.2	1954.8	845.2	193.0	172.7	176.9	189.8	209.1	220.6	222.5	222.5
35°	2488.1	2021.9	682.5	168.1	161.3	162.6	172.7	194.8	215.1	220.1	220.6
37.5°	2674.2	2088.3	519.1	157.1	151.6	151.6	158.9	177.7	201.8	217.4	219.2
40°	2847.8	2128.4	363.9	148.3	142.8	142.8	149.2	163.0	185.7	209.1	214.2
42.5°	3008.1	2142.2	253.3	140.0	134.5	135.9	141.4	152.5	169.5	193.0	197.6
45°	3172.9	2139.9	184.7	130.3	126.2	130.3	134.5	142.8	155.2	168.6	169.5
47.5°	3297.3	2120.6	146.4	121.1	118.4	123.9	127.6	133.1	140.0	139.1	139.1
50°	3413.8	2073.5	117.9	108.7	110.6	117.0	118.9	120.6	121.1	112.3	111.5
52.5°	3502.2	2000.3	94.5	95.3	102.7	109.2	107.3	104.5	100.0	89.3	87.5
55°	3531.8	1859.4	74.2	78.7	91.2	99.5	92.6	86.6	77.9	69.1	67.3
57.5°	3478.3	1677.4	60.4	61.3	76.9	83.8	76.0	69.1	59.4	52.1	50.7
60°	3365.0	1475.3	49.7	46.0	59.4	65.4	60.4	53.5	44.7	39.1	38.7
62.5°	3140.2	1259.7	41.0	36.0	45.2	50.2	46.9	41.9	34.6	30.8	30.4
65°	2667.7	1007.7	33.2	29.0	35.0	39.1	36.4	32.7	27.2	24.4	23.9
67.5°	1862.2	681.2	27.2	23.9	27.7	30.8	28.6	26.7	21.6	21.1	21.6
70°	898.1	328.4	22.5	19.4	21.6	23.9	23.0	21.6	20.7	23.9	27.7
72.5°	257.5	110.1	18.0	16.1	17.5	18.9	19.8	19.4	22.5	29.0	33.6
73°	198.0	88.9	17.0	15.2	16.6	18.4	19.4	18.9	23.0	29.4	33.6
75°	84.8	42.9	12.9	12.4	13.8	16.1	17.0	17.0	23.0	29.9	32.2
77.5°	38.2	23.0	8.3	9.7	12.0	12.9	14.3	14.3	18.4	23.0	23.0
80°	21.6	12.4	6.4	7.4	8.8	8.8	8.8	7.8	8.3	9.2	10.2
82.5°	13.8	8.3	5.0	6.0	5.5	4.6	3.7	3.7	3.3	3.7	4.6
85°	7.8	4.6	4.6	3.7	2.3	1.9	2.3	1.9	0.5	0.0	0.5
87.5°	4.6	2.8	1.4	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)