

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: P322687

Luminaire Tested: **GLEON-SA3C-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322687
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-SA3C-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA 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: 11272 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

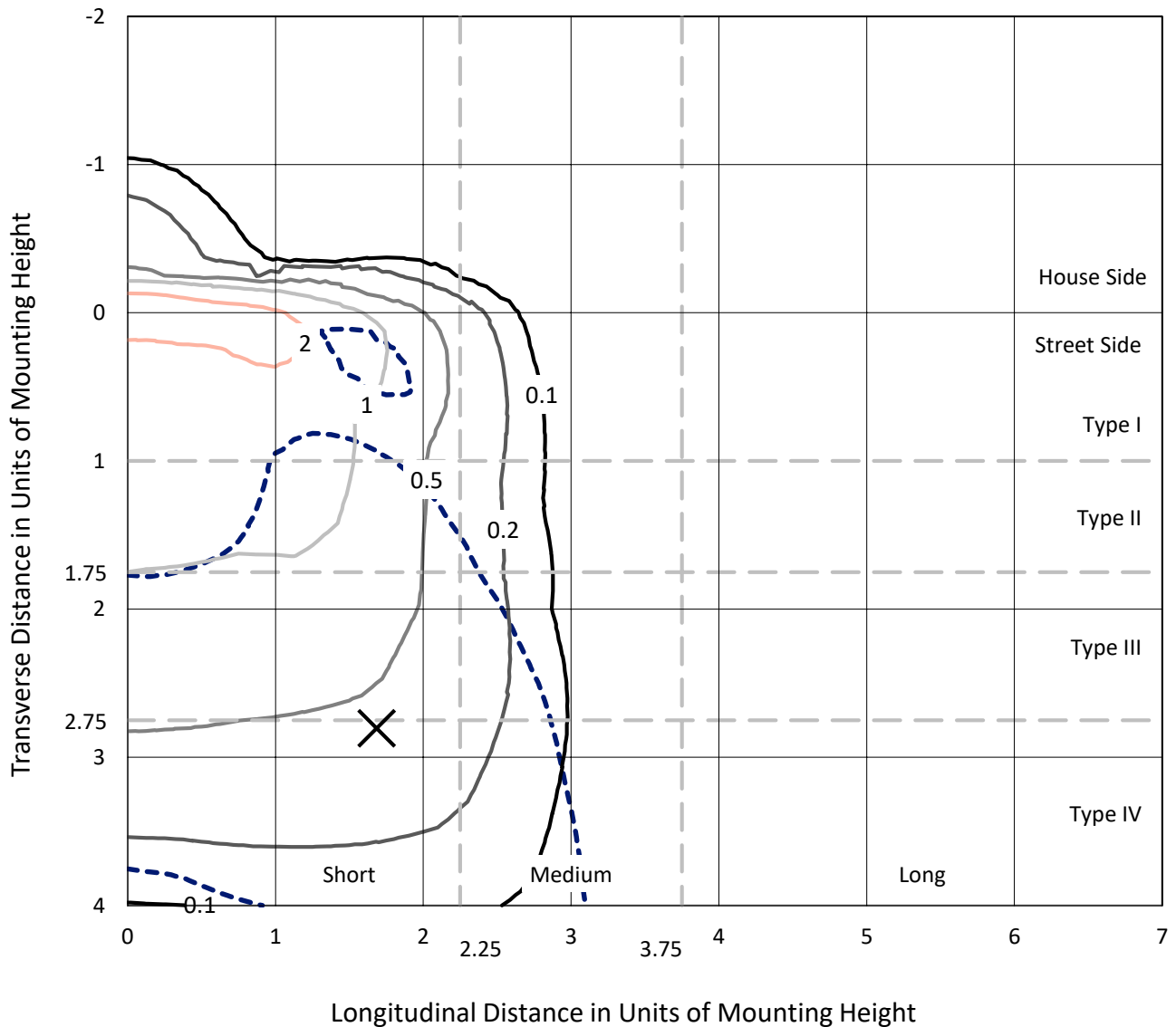
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

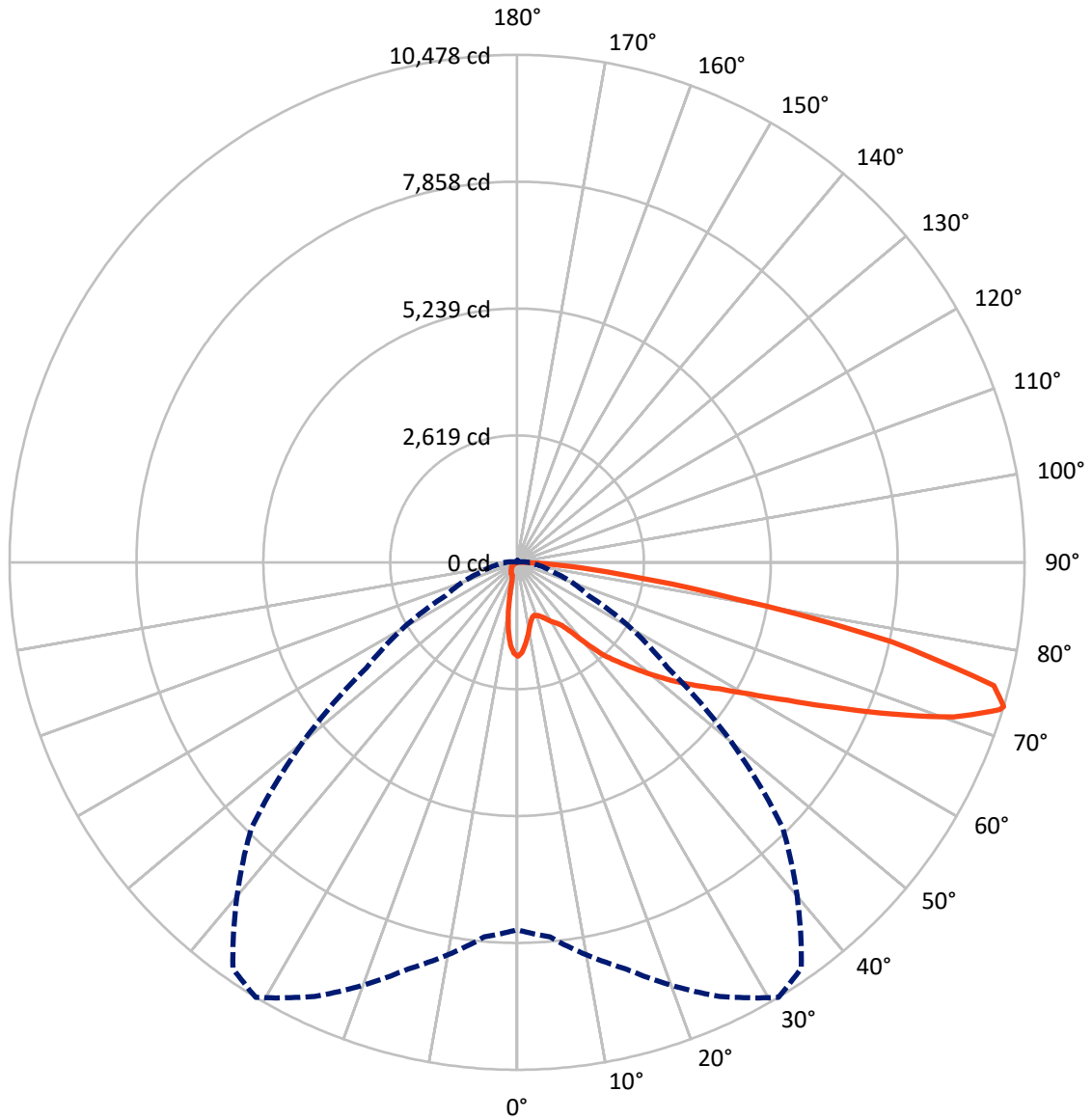
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1027.5	0.0	1027.5
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	10244.5	0.0	10244.5
	% Fixture	90.9	0.0	90.9
Total	Lumens	11272.0	0.0	11272.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	1.4
10°-20°	349.1	3.1
20°-30°	523.1	4.6
30°-40°	832.3	7.4
40°-50°	1486.2	13.2
50°-60°	2306.2	20.5
60°-70°	3065.8	27.2
70°-80°	2306.1	20.5
80°-90°	242.3	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°	11272.0	100.0
0°-180°	11272.0	100.0

Coefficient of Utilization



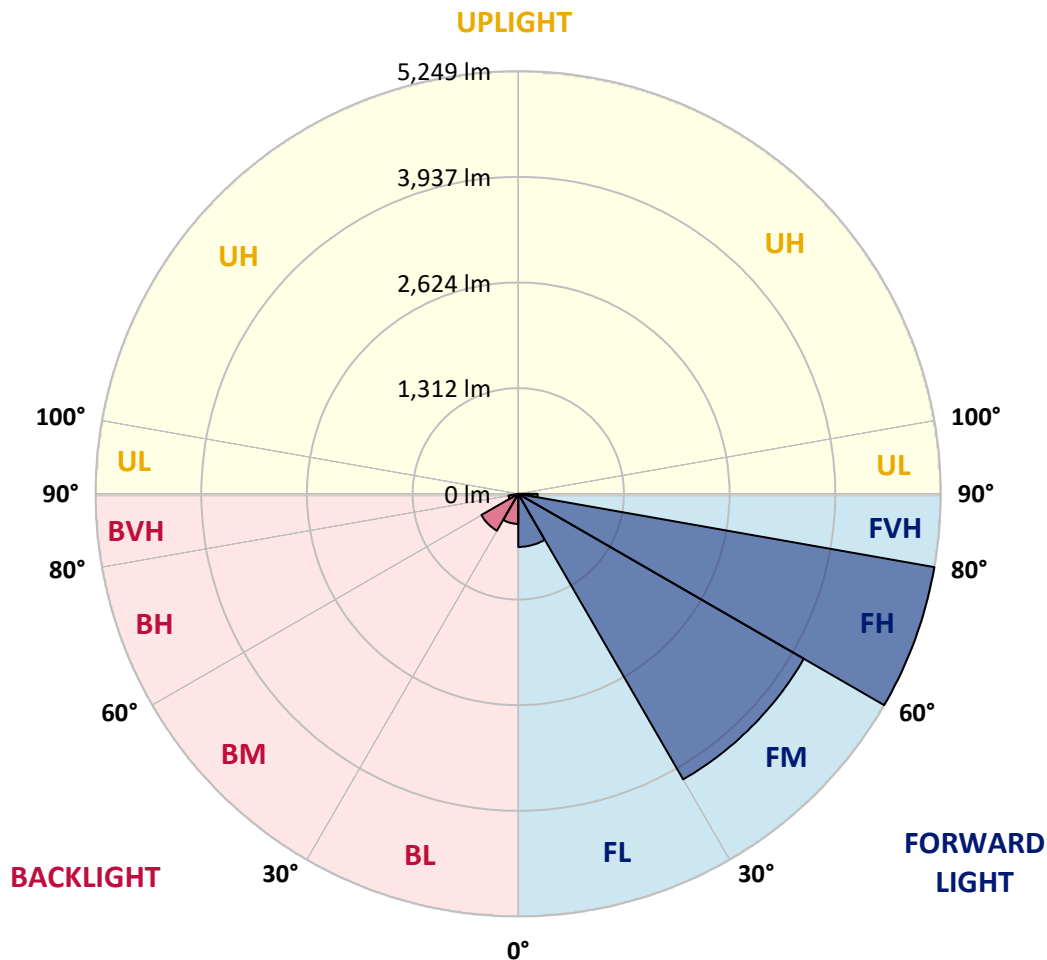
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	659.4	5.9			
FM (30°-60°)	4095.9	36.3			
FH (60°-80°)	5249.0	46.6			G3/7500
FVH (80°-90°)	240.3	2.1			G3/500
BL (0°-30°)	373.6	3.3	B1/500		
BM (30°-60°)	528.9	4.7	B1/1000		
BH (60°-80°)	122.9	1.1	B1/500		G1/500
BVH (80°-90°)	2.0	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4
2.5°	1837.9	1845.6	1853.9	1855.5	1869.3	1869.9	1889.7	1904.6	1919.5	1933.9	1938.8
5°	1649.2	1661.9	1676.8	1691.7	1720.9	1732.5	1781.1	1830.7	1878.1	1923.4	1945.4
7.5°	1447.9	1462.3	1483.2	1520.2	1552.7	1575.3	1652.0	1740.2	1828.5	1911.8	1959.8
10°	1264.2	1277.5	1299.5	1338.7	1388.9	1419.8	1522.9	1645.4	1775.0	1901.3	1981.3
12.5°	1147.3	1154.5	1166.6	1208.5	1253.8	1288.5	1409.8	1561.5	1730.9	1900.8	2016.0
15°	1125.8	1128.0	1118.1	1136.8	1172.1	1205.8	1328.8	1493.7	1697.2	1909.6	2061.3
17.5°	1160.0	1158.9	1125.8	1123.6	1151.7	1179.3	1289.1	1446.8	1673.5	1930.0	2119.7
20°	1211.8	1208.0	1150.6	1140.1	1169.9	1195.8	1286.3	1429.2	1664.7	1964.2	2190.9
22.5°	1280.8	1274.2	1184.3	1173.2	1205.2	1232.2	1320.5	1446.3	1672.4	2010.0	2273.6
25°	1366.3	1356.3	1242.2	1230.0	1262.6	1289.6	1381.7	1495.3	1695.6	2065.7	2378.4
27.5°	1462.8	1448.5	1334.8	1303.4	1340.4	1368.5	1463.4	1570.4	1732.0	2124.7	2507.0
30°	1553.8	1535.1	1432.5	1380.6	1425.8	1457.3	1551.6	1659.7	1790.4	2215.7	2682.9
32.5°	1645.4	1624.4	1519.6	1457.8	1498.7	1532.9	1642.6	1782.7	1900.2	2354.7	2916.8
35°	1856.1	1834.0	1705.5	1603.5	1602.9	1622.2	1770.0	1951.0	2045.3	2548.3	3195.9
37.5°	2210.8	2198.1	2075.6	1882.0	1830.2	1808.6	1943.8	2151.7	2253.8	2814.7	3510.8
40°	2599.1	2588.0	2450.7	2275.3	2196.4	2143.5	2193.1	2431.4	2548.3	3140.2	3832.4
42.5°	3037.6	2985.2	2740.3	2687.9	2617.3	2577.0	2532.3	2776.1	2910.2	3494.3	4151.2
45°	3435.8	3347.6	3029.9	2950.4	2934.4	2944.4	2969.2	3239.5	3317.2	3915.1	4468.9
47.5°	3673.0	3603.5	3359.7	3283.6	3279.2	3344.8	3532.3	3762.9	3722.6	4281.9	4748.6
50°	3898.6	3835.7	3633.3	3652.0	3672.4	3761.8	4171.6	4301.3	4092.8	4614.6	5005.1
52.5°	4081.2	3985.2	3879.3	3984.6	4085.0	4229.0	4831.3	4784.4	4355.3	4879.3	5224.6
55°	4186.5	4143.0	4194.2	4300.2	4488.8	4722.7	5454.1	5186.5	4547.3	5120.9	5370.8
57.5°	4572.6	4487.1	4589.2	4680.7	4926.8	5253.8	5987.4	5486.1	4685.7	5270.4	5404.4
60°	5039.8	4970.9	5031.0	5183.2	5515.3	5899.7	6486.1	5730.4	4758.0	5366.4	5317.3
62.5°	5783.4	5692.4	5654.8	5825.3	6265.4	6685.2	6864.5	5899.7	4742.0	5323.9	5018.3
65°	6779.5	6685.2	6517.5	6672.0	7231.8	7528.0	7287.5	5935.6	4631.7	4980.3	4262.6
67.5°	7800.0	7731.6	7588.1	7848.5	8353.7	8449.2	7734.9	5848.4	4276.4	4038.1	3011.7
70°	8474.0	8444.8	8538.0	9113.8	9564.5	9536.9	8145.2	5380.2	3333.2	2483.2	1489.8
72.5°	7988.0	8128.1	8816.5	9860.7	10411.2	10186.1	7934.5	4131.4	1905.2	955.3	430.8
73°	7585.4	7764.7	8691.3	9888.8	10477.9	10231.3	7757.5	3792.1	1623.9	754.0	326.5
75°	5277.0	5497.1	7195.4	9209.8	10165.7	9748.2	6466.2	2321.1	752.4	334.3	131.8
77.5°	2562.1	2724.8	3962.0	6654.3	7905.9	7616.3	4025.5	864.9	339.8	209.1	60.7
80°	956.4	1063.5	1719.8	3386.7	4568.8	4688.5	1770.6	327.1	226.1	168.2	30.9
82.5°	250.4	279.1	634.3	1510.2	2341.5	2450.7	558.2	164.9	165.5	138.4	18.8
85°	80.0	91.6	198.0	677.9	1103.2	968.6	145.6	80.0	120.2	103.1	10.5
87.5°	9.9	12.7	62.9	159.4	243.2	135.1	22.6	23.7	51.3	57.4	6.1
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°	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4
2.5°	1943.8	1941.0	1941.6	1927.2	1917.9	1899.1	1879.8	1871.0	1861.6	1857.7	1861.6
5°	1953.7	1948.7	1934.4	1890.3	1843.4	1782.7	1725.9	1682.9	1628.8	1613.9	1629.4
7.5°	1969.2	1959.2	1917.3	1827.4	1723.1	1607.3	1477.1	1382.3	1304.5	1254.3	1272.5
10°	1991.8	1973.0	1888.6	1735.8	1549.4	1344.2	1159.4	1015.5	913.4	871.5	869.8
12.5°	2029.8	1994.5	1853.3	1616.7	1337.0	1063.5	821.3	665.2	582.5	529.0	527.9
15°	2071.8	2019.9	1808.6	1473.8	1089.9	761.7	529.0	410.4	356.9	339.8	337.6
17.5°	2123.0	2049.1	1750.7	1297.9	831.2	504.7	345.3	311.1	308.9	307.2	307.2
20°	2187.6	2083.9	1676.3	1096.5	589.6	337.0	293.4	295.6	296.8	294.5	295.1
22.5°	2262.6	2119.2	1587.5	880.3	398.8	281.9	280.8	283.5	284.6	283.5	284.1
25°	2349.7	2160.0	1479.3	653.6	287.9	267.5	270.3	274.1	276.9	276.9	276.9
27.5°	2457.9	2209.6	1349.2	456.2	248.8	252.6	260.3	267.5	271.4	272.5	272.5
30°	2598.5	2271.4	1193.1	312.7	226.1	232.8	247.1	260.9	268.1	269.2	269.7
32.5°	2776.1	2340.9	1012.2	231.1	206.8	211.8	227.3	250.4	264.2	266.4	266.4
35°	2979.7	2421.5	817.4	201.3	193.1	194.7	206.8	233.3	257.6	263.7	264.2
37.5°	3202.5	2500.9	621.6	188.1	181.5	181.5	190.3	212.9	241.6	260.3	262.6
40°	3410.4	2548.9	435.8	177.6	171.0	171.0	178.7	195.3	222.3	250.4	256.5
42.5°	3602.4	2565.4	303.4	167.7	161.1	162.7	169.3	182.6	203.0	231.1	236.6
45°	3799.9	2562.7	221.2	156.1	151.1	156.1	161.1	171.0	185.9	201.9	203.0
47.5°	3948.8	2539.5	175.4	145.1	141.8	148.4	152.8	159.4	167.7	166.6	166.6
50°	4088.3	2483.2	141.2	130.2	132.4	140.1	142.3	144.5	145.1	134.6	133.5
52.5°	4194.2	2395.5	113.1	114.2	123.0	130.7	128.5	125.2	119.7	107.0	104.8
55°	4229.5	2226.7	88.8	94.3	109.2	119.1	110.9	103.7	93.2	82.7	80.5
57.5°	4165.6	2008.9	72.3	73.4	92.1	100.4	91.0	82.7	71.2	62.3	60.7
60°	4029.9	1766.7	59.6	55.2	71.2	78.3	72.3	64.0	53.5	46.9	46.3
62.5°	3760.7	1508.6	49.1	43.0	54.1	60.1	56.3	50.2	41.4	37.0	36.4
65°	3194.8	1206.9	39.7	34.7	41.9	46.9	43.6	39.2	32.5	29.2	28.7
67.5°	2230.1	815.8	32.5	28.7	33.1	37.0	34.2	32.0	25.9	25.4	25.9
70°	1075.6	393.3	27.0	23.2	25.9	28.7	27.6	25.9	24.8	28.7	33.1
72.5°	308.3	131.8	21.5	19.3	21.0	22.6	23.7	23.2	27.0	34.7	40.3
73°	237.2	106.5	20.4	18.2	19.9	22.1	23.2	22.6	27.6	35.3	40.3
75°	101.5	51.3	15.4	14.9	16.5	19.3	20.4	20.4	27.6	35.9	38.6
77.5°	45.8	27.6	9.9	11.6	14.3	15.4	17.1	17.1	22.1	27.6	27.6
80°	25.9	14.9	7.7	8.8	10.5	10.5	10.5	9.4	9.9	11.0	12.1
82.5°	16.5	9.9	6.1	7.2	6.6	5.5	4.4	4.4	3.9	4.4	5.5
85°	9.4	5.5	5.5	4.4	2.8	2.2	2.8	2.2	0.6	0.0	0.6
87.5°	5.5	3.3	1.7	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)