

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: P321717

Luminaire Tested: **GLEON-SA3B-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3B-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9864 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

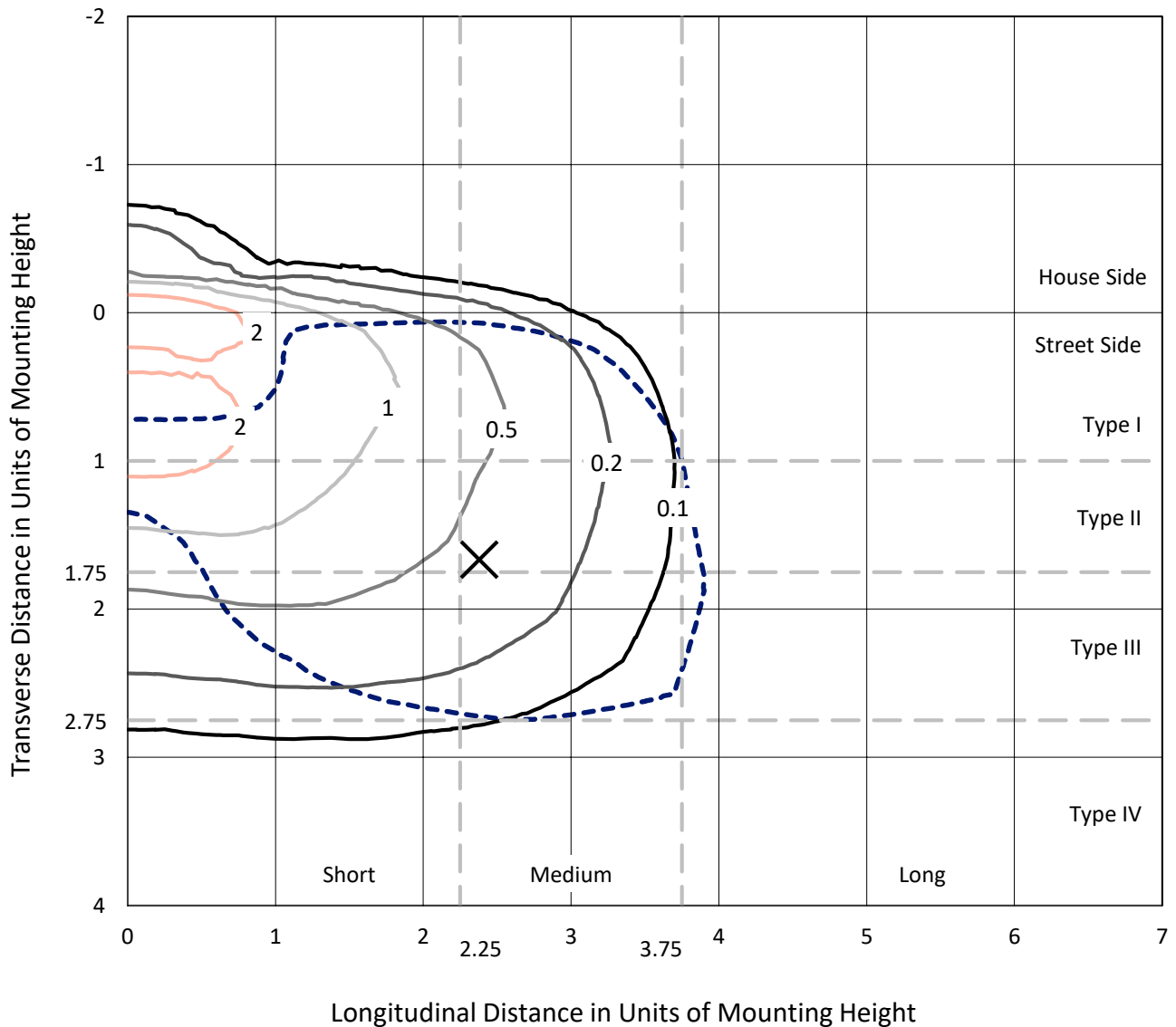
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

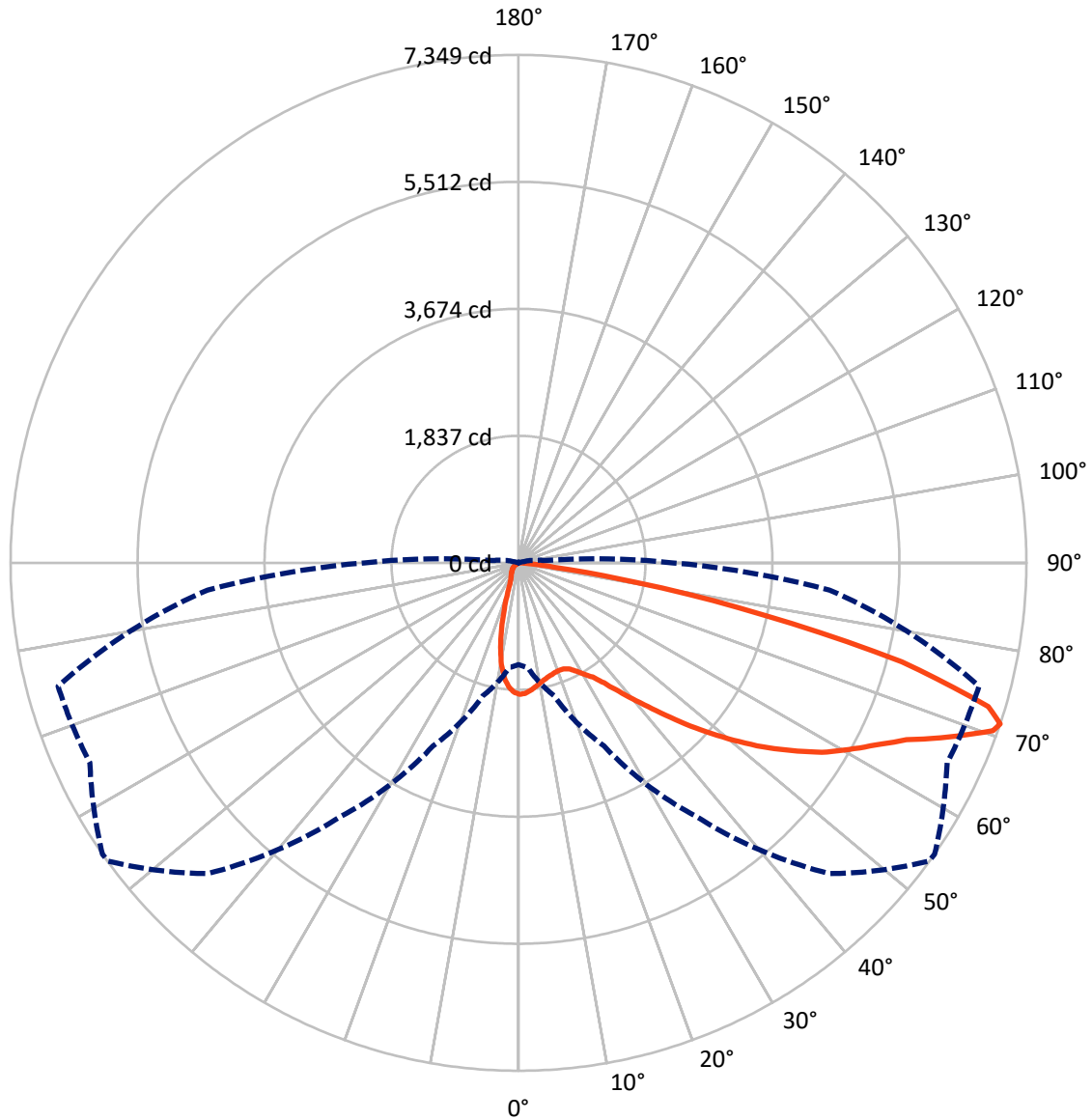
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	781.0	0.0	781.0
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	9083.0	0.0	9083.0
	% Fixture	92.1	0.0	92.1
Total	Lumens	9864.0	0.0	9864.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.2	1.6
10°-20°	366.2	3.7
20°-30°	588.5	6.0
30°-40°	999.8	10.1
40°-50°	1551.8	15.7
50°-60°	2086.4	21.2
60°-70°	2552.3	25.9
70°-80°	1492.3	15.1
80°-90°	64.5	0.7
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°	9864.0	100.0
0°-180°	9864.0	100.0

Coefficient of Utilization

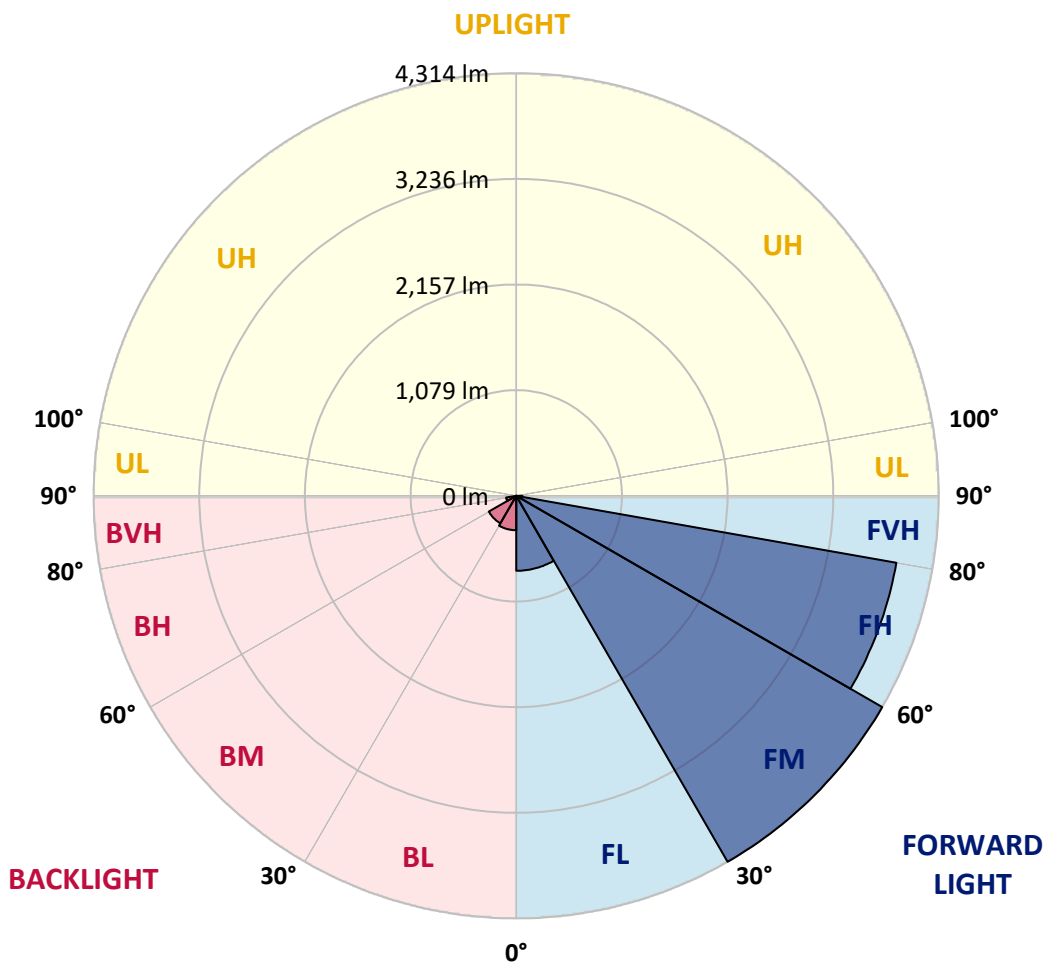


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	765.3	7.8			
FM (30°-60°)	4314.2	43.7			
FH (60°-80°)	3940.0	39.9			G2/5000
FVH (80°-90°)	63.5	0.6			G1/100
BL (0°-30°)	351.5	3.6	B1/500		
BM (30°-60°)	323.8	3.3	B1/1000		
BH (60°-80°)	104.6	1.1	B0/110		G0/110
BVH (80°-90°)	1.0	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-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1902.3	1902.3	1902.3	1902.3	1902.3	1902.3	1902.3	1902.3	1902.3	1902.3	1902.3
2.5°	1846.5	1848.7	1856.7	1860.2	1868.6	1882.8	1889.9	1890.3	1901.9	1906.3	1909.8
5°	1715.8	1729.1	1742.4	1756.6	1782.3	1816.4	1850.0	1853.1	1890.3	1917.8	1932.4
7.5°	1603.3	1615.3	1631.2	1653.8	1690.2	1743.7	1800.0	1806.6	1877.1	1939.5	1972.3
10°	1487.7	1497.5	1520.5	1553.7	1603.8	1675.5	1751.3	1762.3	1865.1	1968.7	2026.3
12.5°	1364.2	1369.9	1397.8	1445.7	1519.2	1610.4	1710.1	1724.7	1857.6	2002.4	2090.1
15°	1270.3	1272.9	1299.5	1349.1	1433.3	1552.0	1678.2	1695.9	1859.3	2042.7	2159.6
17.5°	1246.4	1247.7	1261.9	1296.0	1370.4	1499.7	1652.9	1674.7	1864.7	2082.1	2229.6
20°	1343.4	1334.1	1319.4	1314.1	1346.0	1468.3	1637.9	1662.2	1871.7	2117.1	2292.5
22.5°	1609.5	1582.1	1521.4	1440.4	1391.2	1470.5	1641.9	1666.2	1894.3	2160.1	2365.2
25°	2004.6	1966.5	1863.3	1703.9	1550.6	1534.2	1675.1	1699.9	1938.2	2211.5	2434.7
27.5°	2454.2	2416.5	2290.3	2062.6	1801.3	1660.5	1751.3	1774.3	2003.3	2257.1	2487.8
30°	2884.7	2874.1	2725.2	2466.6	2116.7	1865.1	1849.6	1869.1	2051.6	2284.5	2529.9
32.5°	3249.6	3232.8	3113.2	2861.7	2477.7	2110.9	1965.2	1971.0	2087.9	2320.0	2584.8
35°	3588.0	3567.2	3462.2	3224.4	2847.9	2411.2	2143.3	2134.8	2167.2	2391.3	2664.6
37.5°	3883.5	3902.5	3786.0	3559.7	3180.1	2723.5	2383.3	2358.1	2291.2	2507.3	2780.2
40°	4130.6	4130.6	4069.9	3881.2	3538.9	3046.3	2654.8	2621.6	2477.7	2686.3	2926.8
42.5°	4219.6	4238.7	4261.3	4154.5	3860.0	3382.1	2957.3	2922.8	2740.3	2940.1	3111.9
45°	4224.9	4255.1	4370.7	4370.2	4150.1	3715.6	3298.4	3282.0	3076.9	3266.0	3341.3
47.5°	4150.1	4187.7	4378.2	4486.3	4380.0	4026.1	3671.3	3650.9	3472.4	3665.5	3581.4
50°	4034.5	4076.1	4297.6	4531.9	4536.3	4296.2	4064.2	4033.6	3907.8	4122.2	3829.4
52.5°	3827.6	3908.3	4225.4	4542.5	4639.1	4529.7	4438.0	4424.7	4395.0	4562.0	4027.0
55°	3385.2	3474.6	4044.2	4546.1	4734.3	4736.5	4788.3	4791.9	4851.7	4973.0	4174.0
57.5°	3176.1	3226.6	3728.0	4562.9	4875.6	4971.2	5145.3	5172.8	5265.3	5363.2	4341.9
60°	3044.6	3104.4	3572.1	4539.8	5097.5	5279.1	5476.2	5485.5	5584.7	5765.8	4569.1
62.5°	2939.6	2998.5	3473.8	4451.3	5346.8	5649.3	5799.5	5800.4	5874.8	6245.5	4827.3
65°	2680.5	2730.1	3274.9	4351.6	5511.6	6015.6	6175.1	6169.3	6230.0	6751.3	5127.2
67.5°	2305.8	2343.9	2868.7	3973.8	5449.6	6348.7	6742.0	6723.0	6649.4	7188.5	5245.0
70°	1782.7	1796.5	2261.1	3311.7	4868.5	6476.7	7289.9	7280.1	6906.8	7110.1	4813.1
71°	1473.6	1518.7	1992.7	2922.8	4479.2	6358.4	7343.0	7348.8	6842.1	6896.6	4515.9
72.5°	855.7	894.2	1444.3	2244.7	3802.8	5865.0	7067.5	7109.2	6540.0	6273.0	3857.3
75°	183.4	196.2	535.5	1086.5	2091.9	4110.7	5578.5	5726.9	5330.4	4267.5	2324.8
77.5°	127.6	137.7	229.4	493.0	691.4	2031.2	3465.3	3632.8	3184.5	1603.8	744.1
80°	101.0	112.5	178.9	243.6	186.9	655.1	1623.3	1725.6	1062.1	357.9	125.3
82.5°	56.2	66.9	139.5	131.5	71.8	124.5	454.4	513.8	212.6	72.2	29.7
85°	16.4	19.9	89.9	95.7	30.6	23.9	77.5	96.1	40.3	19.0	13.3
87.5°	0.0	0.0	43.4	36.8	8.9	3.5	7.1	8.0	8.0	8.0	8.9
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°	1902.3	1902.3	1902.3	1902.3	1902.3	1902.3	1902.3	1902.3	1902.3	1902.3	1902.3
2.5°	1909.8	1912.9	1901.9	1887.2	1871.7	1852.7	1832.8	1817.3	1816.8	1809.3	1801.8
5°	1933.3	1931.5	1901.0	1854.5	1799.6	1742.4	1687.9	1626.4	1606.0	1580.8	1572.3
7.5°	1976.7	1964.3	1899.7	1797.8	1677.3	1557.7	1434.1	1309.7	1256.5	1208.7	1200.3
10°	2031.2	2007.7	1891.2	1712.7	1491.7	1271.2	1084.7	915.5	841.1	784.0	781.3
12.5°	2087.9	2052.0	1867.8	1584.3	1248.6	938.5	723.7	557.2	495.2	455.3	458.9
15°	2147.2	2093.6	1817.3	1411.1	971.7	636.9	444.7	346.8	322.0	311.8	314.5
17.5°	2207.9	2122.4	1746.8	1202.5	698.5	411.0	307.8	280.4	280.4	282.6	283.5
20°	2260.6	2137.9	1643.2	968.6	473.5	299.4	269.3	265.3	267.5	271.1	271.5
22.5°	2312.9	2138.8	1508.1	731.7	331.3	262.2	256.4	254.7	256.0	260.0	260.4
25°	2355.4	2128.2	1338.9	520.4	264.4	247.1	244.5	243.6	244.5	249.4	249.4
27.5°	2372.7	2089.7	1132.5	365.8	237.0	230.3	229.4	230.3	231.6	235.2	235.6
30°	2374.5	2022.3	907.5	264.9	214.8	207.7	209.5	212.6	211.3	210.4	211.3
32.5°	2378.9	1944.4	688.3	217.9	196.2	185.1	182.9	182.9	177.6	174.5	172.7
35°	2393.5	1852.7	499.2	195.8	177.2	164.3	155.9	146.2	136.0	130.7	129.3
37.5°	2416.5	1756.6	357.4	181.2	160.3	145.7	129.8	112.5	97.9	93.9	93.9
40°	2458.6	1657.4	264.4	169.6	147.0	128.9	105.0	82.4	69.1	66.9	66.9
42.5°	2525.0	1552.9	210.8	159.4	135.5	111.6	80.2	59.8	50.0	48.7	48.3
45°	2594.1	1437.7	184.3	149.7	123.1	91.7	59.4	44.3	38.5	37.2	37.2
47.5°	2663.2	1315.0	171.4	140.4	111.2	71.3	44.3	35.0	32.3	32.3	32.8
50°	2721.7	1187.0	162.1	130.2	95.7	54.0	35.0	29.7	28.8	30.6	31.0
52.5°	2736.3	1061.2	150.6	117.4	76.6	41.2	28.8	26.1	26.1	26.1	26.1
55°	2727.5	963.8	135.5	101.4	56.7	32.8	24.8	23.0	22.6	22.6	22.6
57.5°	2757.6	906.2	108.5	78.8	40.7	26.6	21.7	20.4	19.5	19.0	19.0
60°	2818.3	868.6	77.5	56.7	30.6	22.1	18.6	17.3	15.9	15.1	15.1
62.5°	2898.9	835.8	57.6	42.1	23.5	17.7	15.5	14.2	12.4	11.5	11.5
65°	2960.9	777.3	43.8	31.4	17.7	14.2	12.0	11.5	8.9	8.0	7.5
67.5°	2866.1	648.9	35.4	23.0	13.3	11.1	9.3	8.9	5.3	4.4	4.4
70°	2458.2	451.8	28.3	16.8	9.7	8.9	7.5	5.8	4.0	3.5	3.5
71°	2229.2	377.4	25.7	14.2	8.4	8.4	7.1	4.9	3.5	3.1	3.1
72.5°	1851.8	268.0	21.7	11.1	7.5	8.9	7.5	4.4	3.5	3.1	2.7
75°	1074.9	112.1	15.1	7.5	5.8	10.6	9.7	4.0	2.7	2.2	2.2
77.5°	323.3	41.2	8.4	4.9	4.4	9.3	11.1	3.5	1.3	0.4	0.4
80°	58.9	17.7	5.3	3.1	3.1	5.8	8.4	1.8	0.0	0.0	0.0
82.5°	20.8	8.9	3.1	1.8	1.3	2.7	4.0	0.0	0.0	0.0	0.0
85°	12.0	6.2	1.8	0.9	0.0	0.4	0.9	0.0	0.0	0.0	0.0
87.5°	8.0	1.8	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)