

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: P527855

Luminaire Tested: **GALN-SA2D-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-827-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6955 lumens
Efficiency: N/A
Efficacy: 55.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

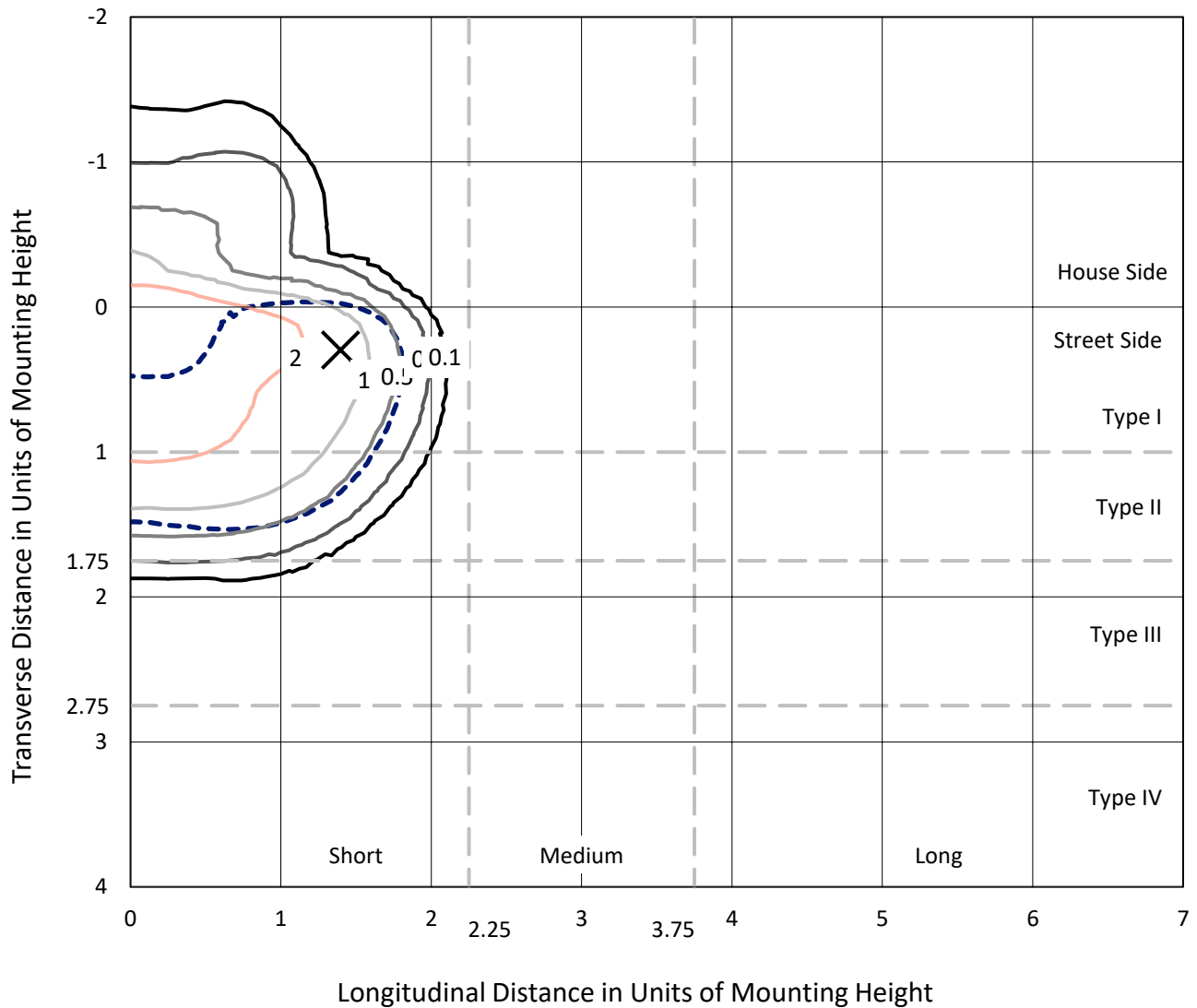
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

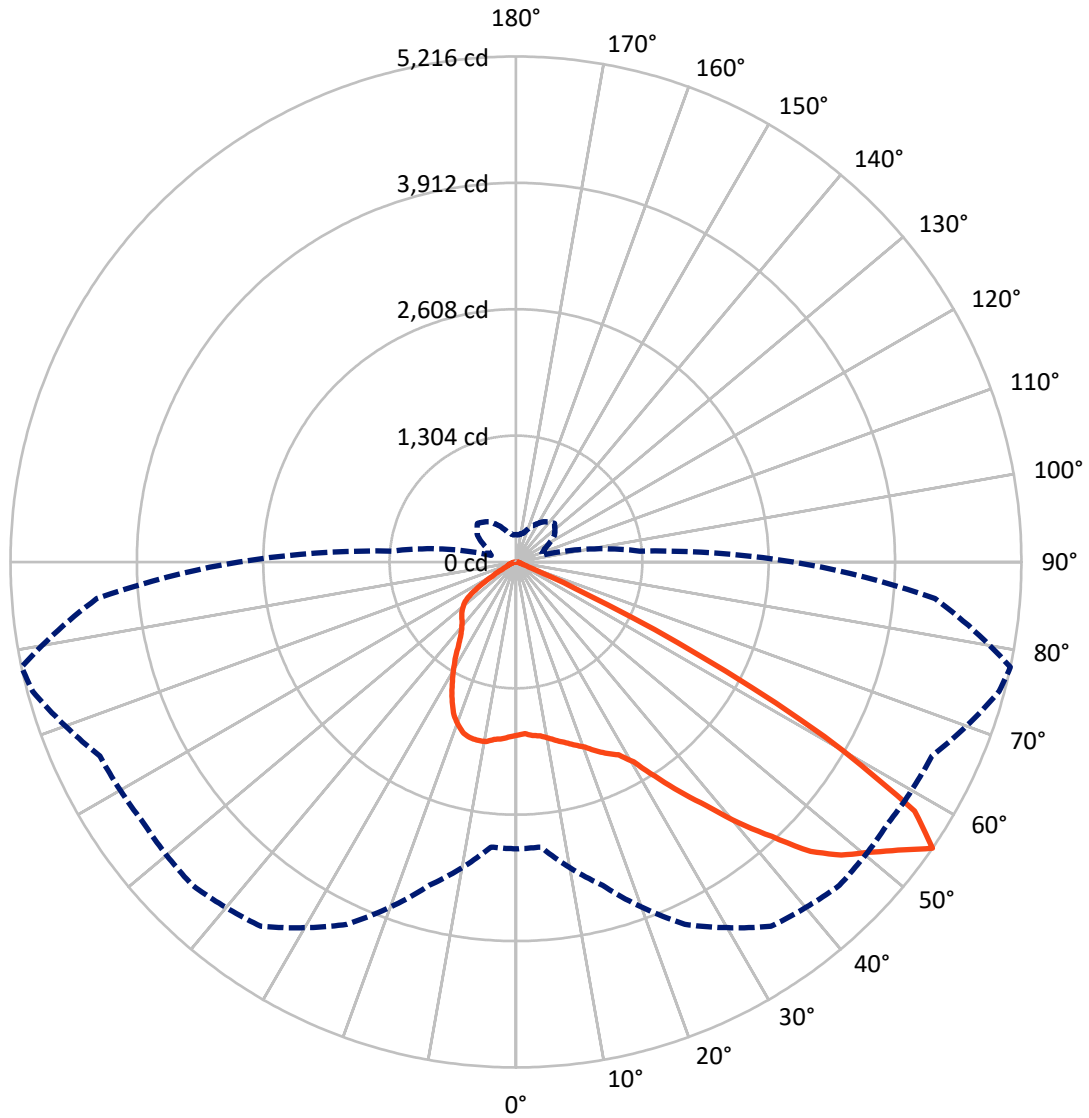
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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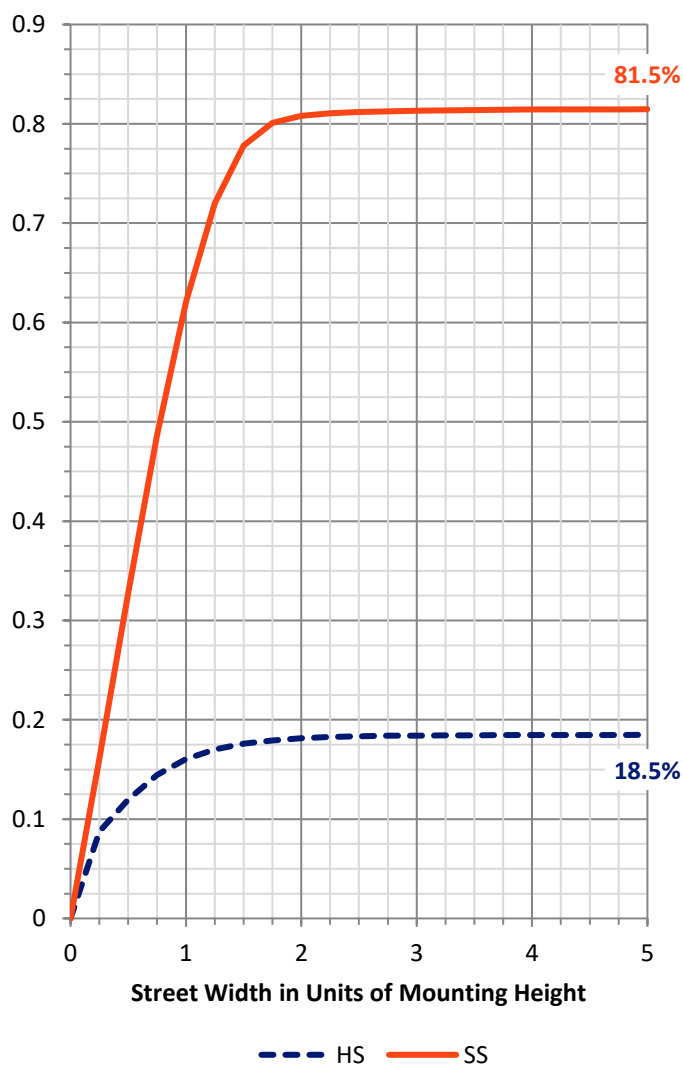
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1291.8	0.0	1291.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	5663.2	0.0	5663.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	6955.0	0.0	6955.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.4	2.3
10°-20°	422.0	6.1
20°-30°	739.6	10.6
30°-40°	1219.6	17.5
40°-50°	1774.6	25.5
50°-60°	2010.8	28.9
60°-70°	574.9	8.3
70°-80°	44.6	0.6
80°-90°	9.3	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°	6955.0	100.0
0°-180°	6955.0	100.0

Coefficient of Utilization



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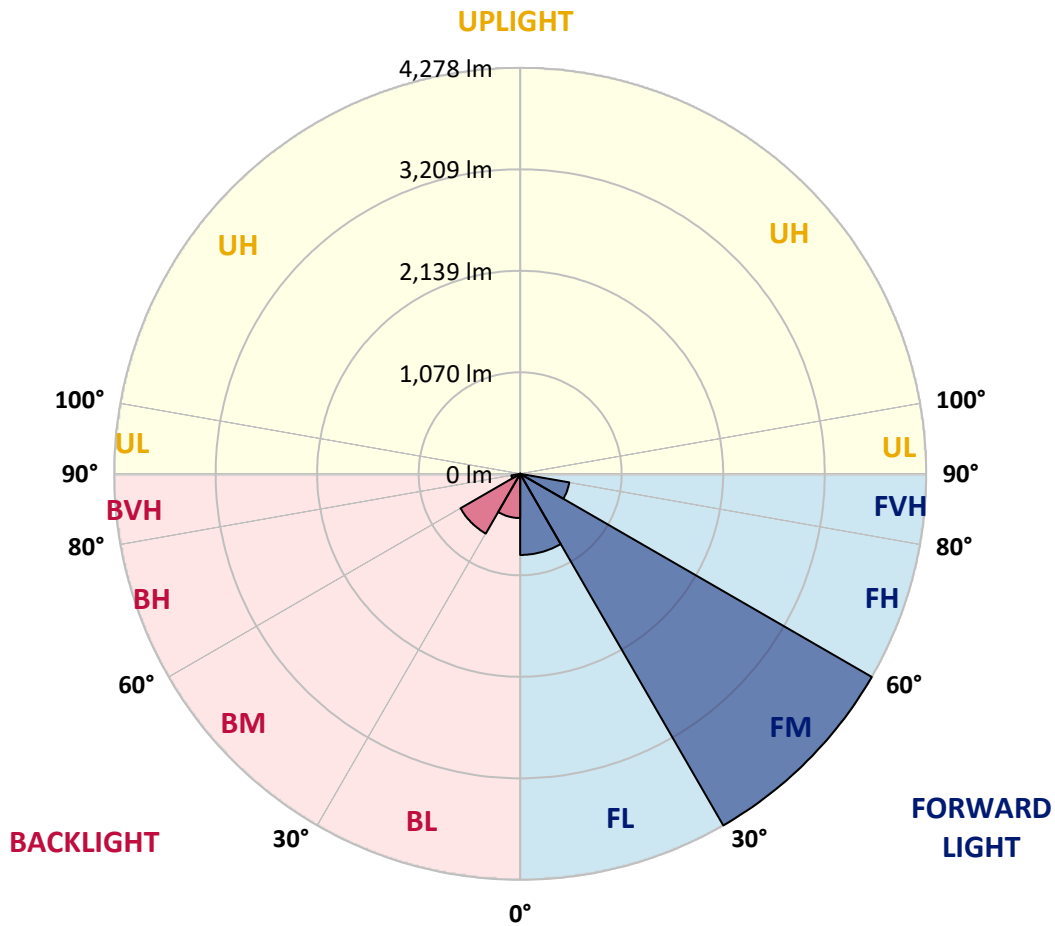
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	855.0	12.3			
FM (30°-60°)	4278.4	61.5			
FH (60°-80°)	525.3	7.6			G0/660
FVH (80°-90°)	4.5	0.1			G0/10
BL (0°-30°)	466.1	6.7	B1/500		
BM (30°-60°)	726.7	10.4	B1/1000		
BH (60°-80°)	94.3	1.4	B0/110		G0/110
BVH (80°-90°)	4.8	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°	55°	65°	75°	78°	85°
0°	1788.1	1788.1	1788.1	1788.1	1788.1	1788.1	1788.1	1788.1	1788.1	1788.1	1788.1
2.5°	1681.2	1697.4	1699.8	1719.7	1718.5	1752.1	1762.0	1763.3	1785.6	1774.5	1803.1
5°	1633.9	1625.2	1621.5	1656.3	1666.3	1696.1	1721.0	1735.9	1781.9	1798.1	1827.9
7.5°	1591.7	1591.7	1594.2	1625.2	1621.5	1660.1	1686.2	1732.2	1799.3	1813.0	1849.1
10°	1550.6	1535.7	1554.4	1586.7	1614.0	1631.5	1686.2	1729.7	1808.0	1847.8	1897.6
12.5°	1529.5	1537.0	1539.4	1563.1	1592.9	1645.1	1675.0	1747.1	1870.2	1893.8	1947.3
15°	1662.5	1647.6	1611.6	1590.4	1615.3	1640.2	1714.8	1788.1	1902.5	1936.1	1995.8
17.5°	1816.7	1804.3	1774.5	1717.3	1661.3	1707.3	1765.8	1832.9	1937.4	1987.1	2075.4
20°	2018.2	1998.3	1968.4	1856.5	1808.0	1758.3	1820.5	1900.0	1994.6	2039.3	2130.1
22.5°	2258.2	2258.2	2191.0	2055.5	1954.8	1907.5	1933.6	1979.6	2058.0	2118.9	2208.4
25°	2508.1	2500.7	2439.7	2299.2	2128.9	2072.9	2102.7	2135.1	2156.2	2189.8	2249.5
27.5°	2794.1	2750.6	2673.5	2518.1	2367.6	2259.4	2291.7	2263.1	2237.0	2254.4	2340.2
30°	2988.1	3015.5	2917.2	2768.0	2626.2	2505.6	2511.8	2487.0	2367.6	2392.5	2443.5
32.5°	3189.5	3207.0	3152.2	3070.2	2928.4	2787.9	2736.9	2715.8	2626.2	2637.4	2587.7
35°	3357.4	3391.0	3342.5	3306.4	3265.4	3152.2	3011.7	3080.1	2935.9	2908.5	2779.2
37.5°	3511.6	3501.7	3558.9	3521.6	3512.9	3433.3	3279.1	3292.8	3195.8	3189.5	3040.3
40°	3649.6	3652.1	3730.5	3747.9	3713.1	3571.3	3347.5	3455.7	3534.0	3541.5	3350.0
42.5°	3764.0	3797.6	3864.8	4005.3	3953.0	3716.8	3418.3	3536.5	3827.5	3873.5	3643.4
45°	3863.5	3931.9	4015.2	4140.8	4111.0	3923.2	3594.9	3703.1	4140.8	4261.4	3919.5
47.5°	3869.7	3959.3	4050.0	4236.6	4273.9	4033.9	3777.7	3966.7	4389.5	4520.1	4120.9
50°	3844.9	3892.1	4073.7	4276.4	4360.9	4214.2	4033.9	4188.1	4630.7	4712.8	4222.9
52.5°	3550.2	3586.2	3950.6	4313.7	4517.6	4418.1	4373.3	4496.4	4877.0	4937.9	4318.6
55°	2959.5	2953.3	3454.4	4125.9	4589.7	4720.3	4692.9	4736.4	5161.7	5216.4	4342.3
57.5°	2024.4	2137.6	2570.3	3435.8	4148.3	4649.4	4678.0	4605.9	4829.7	4850.8	3785.2
60°	1091.8	1139.0	1487.2	2293.0	3158.5	3788.9	3863.5	3732.9	3715.5	3655.9	2702.1
62.5°	434.0	457.6	655.3	1135.3	1721.0	2302.9	2463.3	2409.9	2295.5	2138.8	1398.9
65°	206.4	221.3	325.8	531.0	763.5	960.0	1120.4	1170.1	863.0	777.2	461.3
67.5°	140.5	151.7	237.5	303.4	272.3	284.8	370.6	344.4	202.7	172.8	128.1
70°	106.9	114.4	190.3	206.4	121.9	85.8	95.7	89.5	83.3	84.6	83.3
72.5°	75.9	82.1	139.3	121.9	53.5	39.8	51.0	60.9	60.9	60.9	59.7
75°	46.0	52.2	80.8	47.3	21.1	21.1	32.3	41.0	43.5	44.8	42.3
77.5°	23.6	29.8	27.4	13.7	13.7	16.2	23.6	28.6	31.1	31.1	29.8
80°	5.0	5.0	5.0	7.5	13.7	17.4	23.6	26.1	29.8	29.8	27.4
82.5°	0.0	1.2	3.7	7.5	12.4	16.2	22.4	26.1	29.8	31.1	28.6
85°	0.0	1.2	2.5	5.0	8.7	9.9	8.7	7.5	7.5	7.5	7.5
87.5°	0.0	0.0	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5	2.5
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°	1788.1	1788.1	1788.1	1788.1	1788.1	1788.1	1788.1	1788.1	1788.1	1788.1	1788.1
2.5°	1805.5	1809.3	1803.1	1801.8	1796.8	1811.8	1775.7	1767.0	1789.4	1768.2	1773.2
5°	1829.2	1837.9	1826.7	1808.0	1780.7	1738.4	1702.3	1655.1	1632.7	1616.5	1614.0
7.5°	1846.6	1852.8	1841.6	1781.9	1699.8	1592.9	1513.3	1454.9	1408.9	1395.2	1372.8
10°	1917.5	1918.7	1862.7	1730.9	1570.5	1430.0	1308.1	1218.6	1172.6	1144.0	1131.6
12.5°	1964.7	1962.2	1849.1	1630.2	1416.3	1229.8	1090.5	982.4	940.1	926.4	917.7
15°	2024.4	2010.7	1816.7	1527.0	1217.4	1015.9	890.3	815.7	812.0	803.3	812.0
17.5°	2071.6	2033.1	1769.5	1339.2	1027.1	836.9	754.8	759.8	769.7	778.4	779.7
20°	2148.7	2069.2	1661.3	1175.1	850.5	717.5	716.2	738.6	763.5	773.4	783.4
22.5°	2207.2	2084.1	1545.7	999.8	706.3	669.0	690.1	723.7	742.4	752.3	767.2
25°	2228.3	2043.0	1391.5	824.4	636.7	646.6	678.9	701.3	725.0	736.1	729.9
27.5°	2249.5	2021.9	1207.4	678.9	599.4	631.7	659.0	681.4	688.9	703.8	713.8
30°	2300.5	1948.5	1042.0	586.9	580.7	621.7	641.6	649.1	669.0	677.7	677.7
32.5°	2341.5	1919.9	866.7	543.4	578.2	626.7	629.2	629.2	631.7	625.5	623.0
35°	2426.0	1821.7	710.0	517.3	577.0	628.0	634.2	613.0	555.8	533.5	527.2
37.5°	2530.5	1758.3	594.4	511.1	585.7	642.9	652.8	573.2	498.6	462.6	456.4
40°	2657.3	1713.5	518.5	508.6	605.6	677.7	647.9	542.2	445.2	392.9	390.5
42.5°	2805.3	1672.5	467.6	507.3	630.4	713.8	642.9	516.0	390.5	355.6	360.6
45°	2923.4	1650.1	432.7	498.6	639.2	734.9	646.6	470.0	368.1	345.7	348.2
47.5°	3015.5	1602.9	404.1	483.7	637.9	742.4	613.0	451.4	356.9	363.1	369.3
50°	3017.9	1539.4	368.1	451.4	619.3	728.7	574.5	434.0	354.4	380.5	392.9
52.5°	2984.4	1449.9	329.5	405.4	575.7	681.4	539.7	426.5	343.2	340.7	355.6
55°	2865.0	1282.0	264.9	328.3	486.2	562.1	508.6	412.8	309.6	281.0	283.5
57.5°	2315.4	918.9	195.2	235.0	344.4	411.6	458.8	406.6	278.5	238.7	240.0
60°	1433.7	521.0	143.0	160.4	212.6	249.9	371.8	378.0	248.7	201.4	199.0
62.5°	736.1	257.4	110.7	113.2	130.6	146.7	254.9	317.1	225.1	191.5	191.5
65°	246.2	126.8	97.0	87.0	87.0	90.8	154.2	220.1	190.3	160.4	160.4
67.5°	105.7	94.5	84.6	75.9	69.6	65.9	87.0	128.1	141.8	121.9	116.9
70°	82.1	79.6	73.4	63.4	54.7	49.7	51.0	65.9	80.8	78.3	75.9
72.5°	60.9	60.9	58.4	49.7	42.3	36.1	33.6	34.8	38.5	39.8	41.0
75°	42.3	43.5	43.5	38.5	31.1	26.1	22.4	18.7	14.9	12.4	11.2
77.5°	28.6	29.8	32.3	28.6	23.6	17.4	13.7	9.9	6.2	2.5	2.5
80°	24.9	28.6	31.1	28.6	24.9	18.7	13.7	7.5	3.7	0.0	0.0
82.5°	26.1	28.6	32.3	27.4	23.6	17.4	13.7	8.7	3.7	1.2	0.0
85°	6.2	6.2	7.5	8.7	11.2	12.4	9.9	6.2	3.7	1.2	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	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)