

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: P527309

Luminaire Tested: **GALN-SA2B-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527309
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-SA2B-740-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA 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: 6959 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

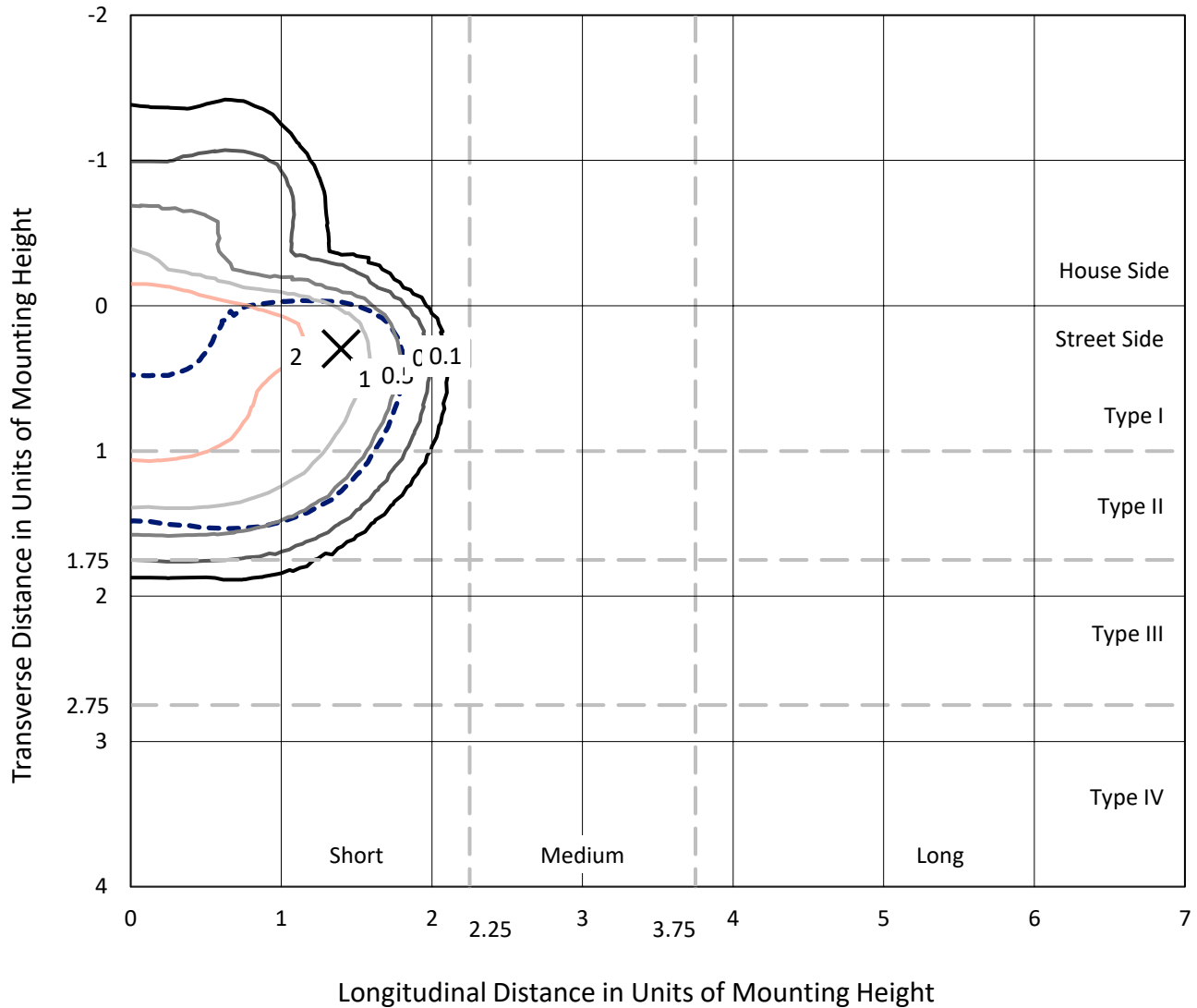
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

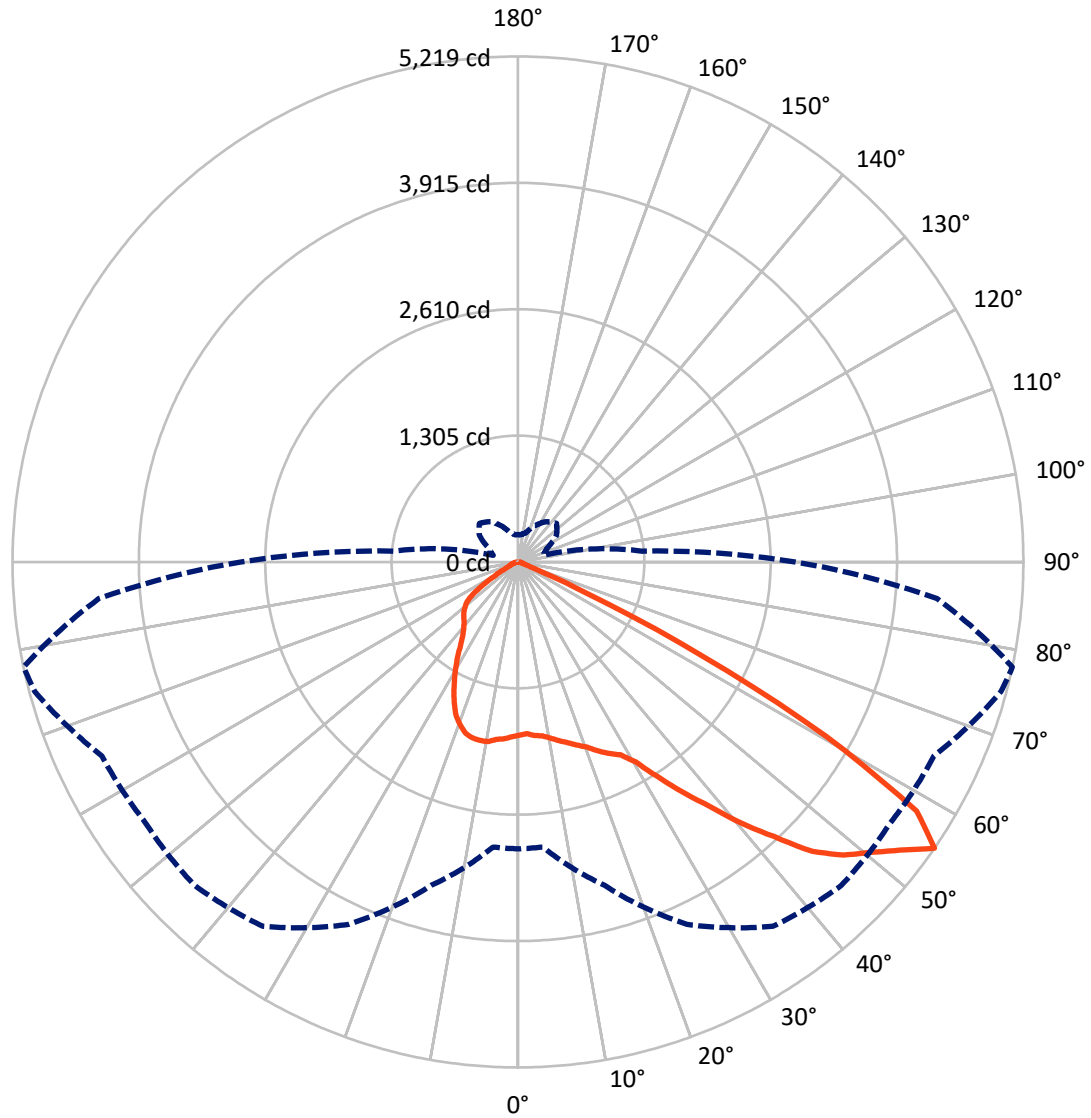
✕ Max cd
 - - - 1/2 Max cd



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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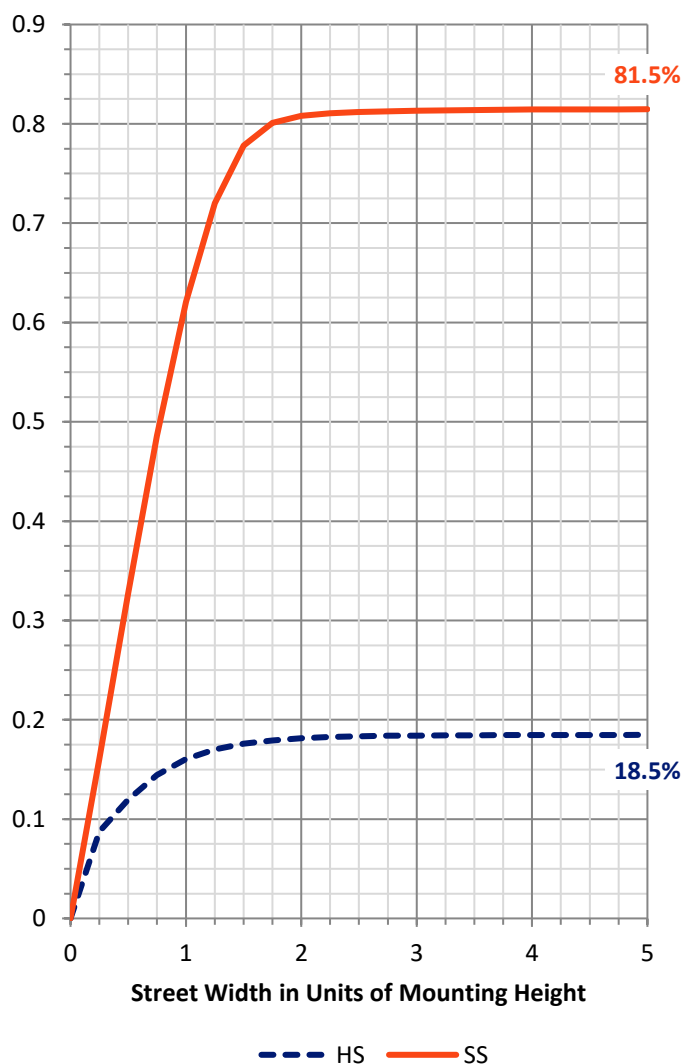
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1292.6	0.0	1292.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	5666.5	0.0	5666.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	6959.0	0.0	6959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	2.3
10°-20°	422.2	6.1
20°-30°	740.1	10.6
30°-40°	1220.3	17.5
40°-50°	1775.7	25.5
50°-60°	2012.0	28.9
60°-70°	575.3	8.3
70°-80°	44.7	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°	6959.0	100.0
0°-180°	6959.0	100.0

Coefficient of Utilization



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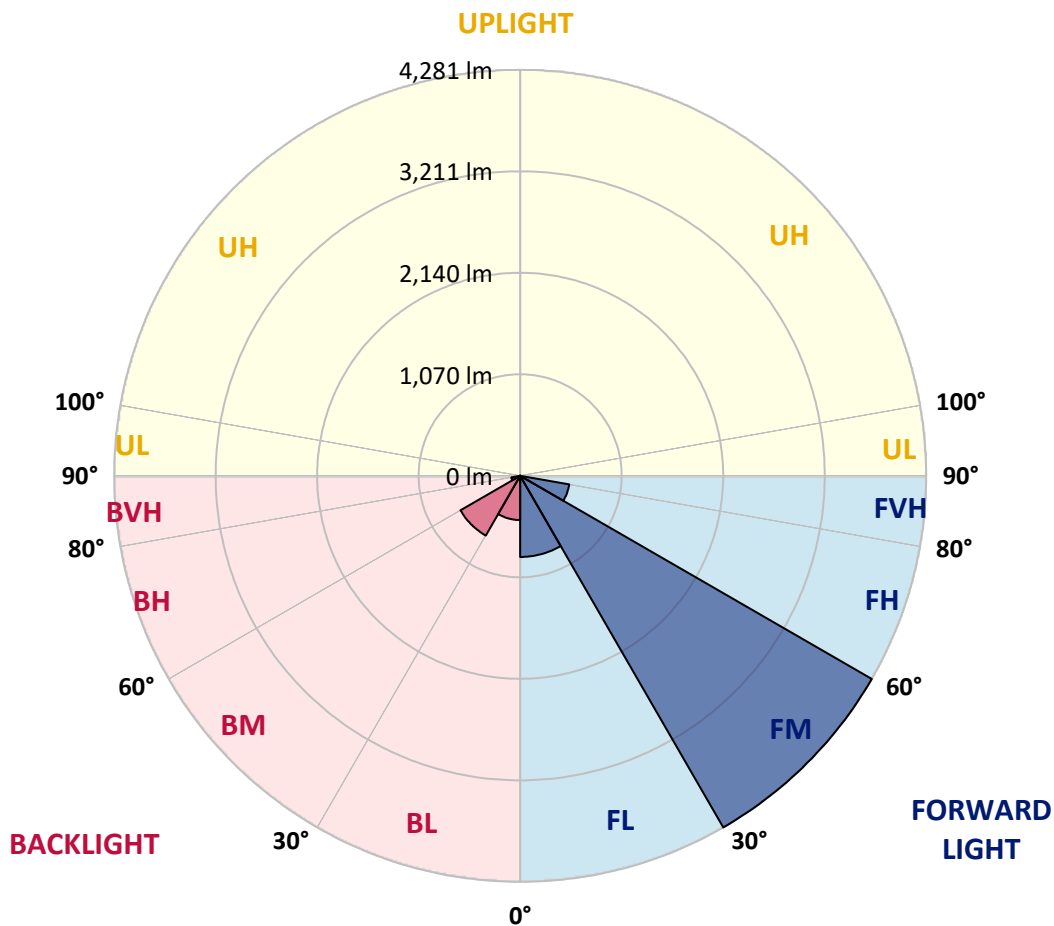
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	855.5	12.3			
FM (30°-60°)	4280.9	61.5			
FH (60°-80°)	525.6	7.6			G0/660
FVH (80°-90°)	4.5	0.1			G0/10
BL (0°-30°)	466.4	6.7	B1/500		
BM (30°-60°)	727.1	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°	1789.2	1789.2	1789.2	1789.2	1789.2	1789.2	1789.2	1789.2	1789.2	1789.2	1789.2
2.5°	1682.2	1698.3	1700.8	1720.7	1719.5	1753.1	1763.0	1764.3	1786.7	1775.5	1804.1
5°	1634.9	1626.2	1622.4	1657.3	1667.2	1697.1	1722.0	1736.9	1782.9	1799.1	1829.0
7.5°	1592.6	1592.6	1595.1	1626.2	1622.4	1661.0	1687.1	1733.2	1800.4	1814.0	1850.1
10°	1551.5	1536.6	1555.3	1587.6	1615.0	1632.4	1687.1	1730.7	1809.1	1848.9	1898.7
12.5°	1530.4	1537.8	1540.3	1564.0	1593.8	1646.1	1675.9	1748.1	1871.3	1894.9	1948.4
15°	1663.5	1648.6	1612.5	1591.3	1616.2	1641.1	1715.8	1789.2	1903.6	1937.2	1996.9
17.5°	1817.8	1805.3	1775.5	1718.2	1662.3	1708.3	1766.8	1834.0	1938.5	1988.2	2076.6
20°	2019.3	1999.4	1969.6	1857.6	1809.1	1759.3	1821.5	1901.1	1995.7	2040.5	2131.3
22.5°	2259.5	2259.5	2192.3	2056.7	1955.9	1908.6	1934.7	1980.8	2059.2	2120.1	2209.7
25°	2509.6	2502.1	2441.1	2300.5	2130.1	2074.1	2103.9	2136.3	2157.4	2191.0	2250.8
27.5°	2795.7	2752.2	2675.0	2519.5	2369.0	2260.7	2293.1	2264.4	2238.3	2255.7	2341.6
30°	2989.8	3017.2	2918.9	2769.6	2627.8	2507.1	2513.3	2488.4	2369.0	2393.8	2444.9
32.5°	3191.4	3208.8	3154.1	3071.9	2930.1	2789.5	2738.5	2717.3	2627.8	2639.0	2589.2
35°	3359.3	3392.9	3344.4	3308.3	3267.3	3154.1	3013.5	3081.9	2937.6	2910.2	2780.8
37.5°	3513.6	3503.7	3560.9	3523.6	3514.9	3435.2	3281.0	3294.6	3197.6	3191.4	3042.1
40°	3651.7	3654.2	3732.6	3750.0	3715.2	3573.3	3349.4	3457.6	3536.0	3543.5	3351.9
42.5°	3766.2	3799.8	3867.0	4007.6	3955.3	3718.9	3420.3	3538.5	3829.7	3875.7	3645.5
45°	3865.7	3934.2	4017.5	4143.2	4113.3	3925.5	3597.0	3705.2	4143.2	4263.9	3921.7
47.5°	3872.0	3961.5	4052.4	4239.0	4276.3	4036.2	3779.9	3969.0	4392.0	4522.7	4123.3
50°	3847.1	3894.4	4076.0	4278.8	4363.4	4216.6	4036.2	4190.5	4633.4	4715.5	4225.3
52.5°	3552.2	3588.3	3952.8	4316.1	4520.2	4420.7	4375.9	4499.0	4879.8	4940.7	4321.1
55°	2961.2	2955.0	3456.4	4128.3	4592.4	4723.0	4695.6	4739.2	5164.7	5219.4	4344.8
57.5°	2025.6	2138.8	2571.8	3437.7	4150.7	4652.1	4680.7	4608.5	4832.5	4853.6	3787.4
60°	1092.4	1139.7	1488.1	2294.3	3160.3	3791.1	3865.7	3735.1	3717.7	3658.0	2703.7
62.5°	434.2	457.9	655.7	1136.0	1722.0	2304.3	2464.8	2411.3	2296.8	2140.0	1399.7
65°	206.5	221.5	326.0	531.3	763.9	960.5	1121.0	1170.8	863.5	777.6	461.6
67.5°	140.6	151.8	237.6	303.6	272.5	284.9	370.8	344.6	202.8	172.9	128.2
70°	107.0	114.5	190.4	206.5	121.9	85.8	95.8	89.6	83.4	84.6	83.4
72.5°	75.9	82.1	139.4	121.9	53.5	39.8	51.0	61.0	61.0	61.0	59.7
75°	46.0	52.3	80.9	47.3	21.2	21.2	32.3	41.1	43.5	44.8	42.3
77.5°	23.6	29.9	27.4	13.7	13.7	16.2	23.6	28.6	31.1	31.1	29.9
80°	5.0	5.0	5.0	7.5	13.7	17.4	23.6	26.1	29.9	29.9	27.4
82.5°	0.0	1.2	3.7	7.5	12.4	16.2	22.4	26.1	29.9	31.1	28.6
85°	0.0	1.2	2.5	5.0	8.7	10.0	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°	1789.2	1789.2	1789.2	1789.2	1789.2	1789.2	1789.2	1789.2	1789.2	1789.2	1789.2
2.5°	1806.6	1810.3	1804.1	1802.8	1797.9	1812.8	1776.7	1768.0	1790.4	1769.3	1774.2
5°	1830.2	1838.9	1827.7	1809.1	1781.7	1739.4	1703.3	1656.0	1633.6	1617.5	1615.0
7.5°	1847.6	1853.9	1842.7	1782.9	1700.8	1593.8	1514.2	1455.7	1409.7	1396.0	1373.6
10°	1918.6	1919.8	1863.8	1731.9	1571.4	1430.8	1308.9	1219.3	1173.3	1144.7	1132.2
12.5°	1965.8	1963.4	1850.1	1631.1	1417.1	1230.5	1091.2	982.9	940.6	926.9	918.2
15°	2025.6	2011.9	1817.8	1527.9	1218.1	1016.5	890.8	816.2	812.5	803.8	812.5
17.5°	2072.8	2034.3	1770.5	1340.0	1027.7	837.3	755.2	760.2	770.2	778.9	780.1
20°	2150.0	2070.4	1662.3	1175.8	851.0	717.9	716.7	739.1	763.9	773.9	783.8
22.5°	2208.5	2085.3	1546.5	1000.3	706.7	669.4	690.5	724.1	742.8	752.7	767.7
25°	2229.6	2044.2	1392.3	824.9	637.0	647.0	679.3	701.7	725.4	736.6	730.3
27.5°	2250.8	2023.1	1208.1	679.3	599.7	632.1	659.4	681.8	689.3	704.2	714.2
30°	2301.8	1949.7	1042.6	587.3	581.0	622.1	642.0	649.5	669.4	678.1	678.1
32.5°	2342.8	1921.0	867.2	543.7	578.6	627.1	629.6	629.6	632.1	625.8	623.3
35°	2427.4	1822.8	710.4	517.6	577.3	628.3	634.5	613.4	556.2	533.8	527.5
37.5°	2532.0	1759.3	594.7	511.4	586.0	643.3	653.2	573.6	498.9	462.8	456.6
40°	2658.9	1714.5	518.8	508.9	605.9	678.1	648.2	542.5	445.4	393.2	390.7
42.5°	2806.9	1673.5	467.8	507.6	630.8	714.2	643.3	516.3	390.7	355.8	360.8
45°	2925.1	1651.1	433.0	498.9	639.5	735.3	647.0	470.3	368.3	345.9	348.4
47.5°	3017.2	1603.8	404.4	484.0	638.3	742.8	613.4	451.6	357.1	363.3	369.5
50°	3019.7	1540.3	368.3	451.6	619.6	729.1	574.8	434.2	354.6	380.7	393.2
52.5°	2986.1	1450.7	329.7	405.6	576.1	681.8	540.0	426.8	343.4	340.9	355.8
55°	2866.6	1282.8	265.0	328.5	486.5	562.4	508.9	413.1	309.8	281.2	283.7
57.5°	2316.7	919.5	195.3	235.2	344.6	411.8	459.1	406.9	278.7	238.9	240.1
60°	1434.6	521.3	143.1	160.5	212.8	250.1	372.0	378.2	248.8	201.6	199.1
62.5°	736.6	257.5	110.7	113.2	130.6	146.8	255.1	317.3	225.2	191.6	191.6
65°	246.4	126.9	97.0	87.1	87.1	90.8	154.3	220.2	190.4	160.5	160.5
67.5°	105.8	94.6	84.6	75.9	69.7	65.9	87.1	128.2	141.8	121.9	117.0
70°	82.1	79.6	73.4	63.5	54.7	49.8	51.0	65.9	80.9	78.4	75.9
72.5°	61.0	61.0	58.5	49.8	42.3	36.1	33.6	34.8	38.6	39.8	41.1
75°	42.3	43.5	43.5	38.6	31.1	26.1	22.4	18.7	14.9	12.4	11.2
77.5°	28.6	29.9	32.3	28.6	23.6	17.4	13.7	10.0	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	10.0	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)