

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637673

Luminaire Tested: GWS-SA4D-730-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-730-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16371.5 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

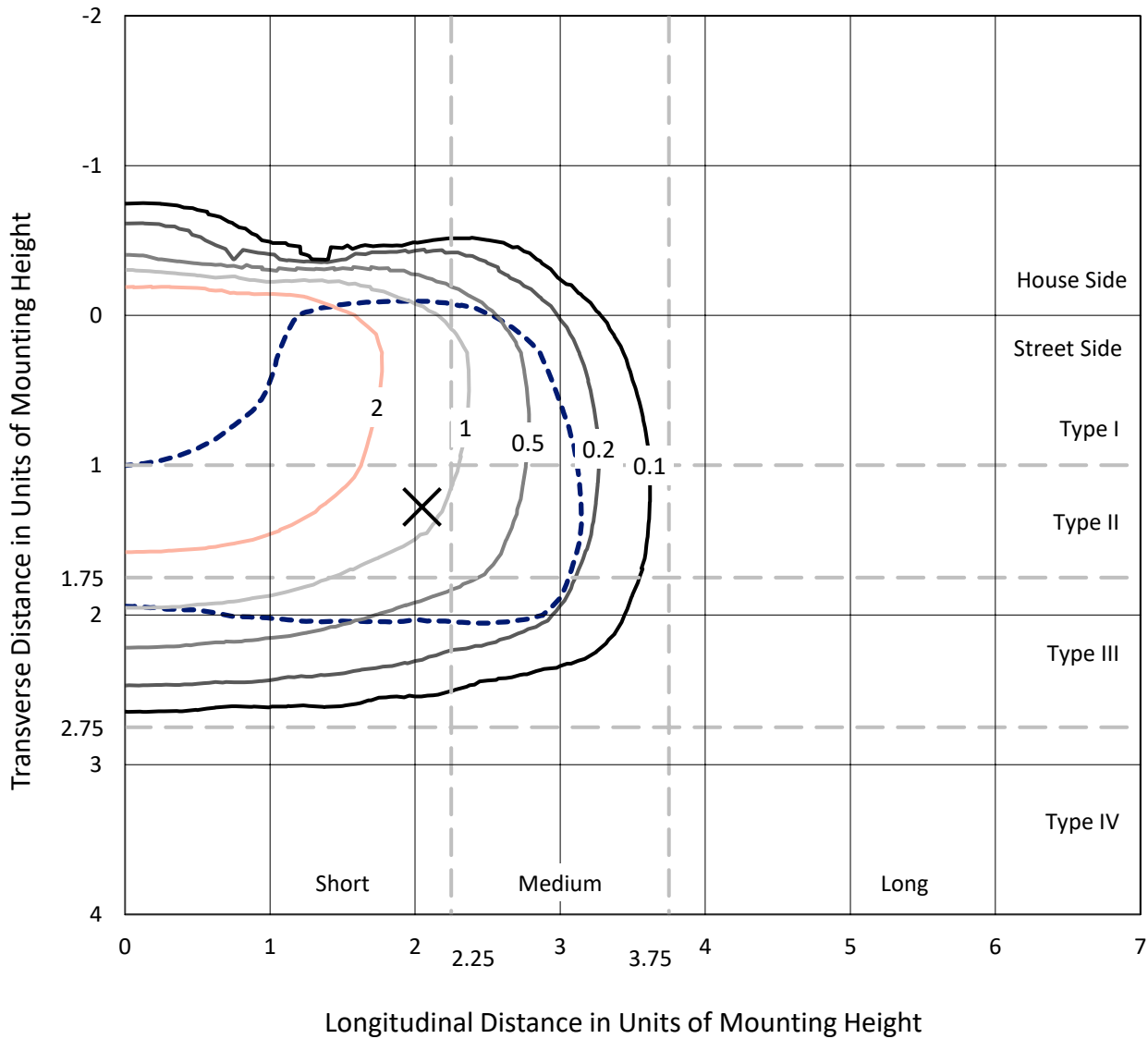
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

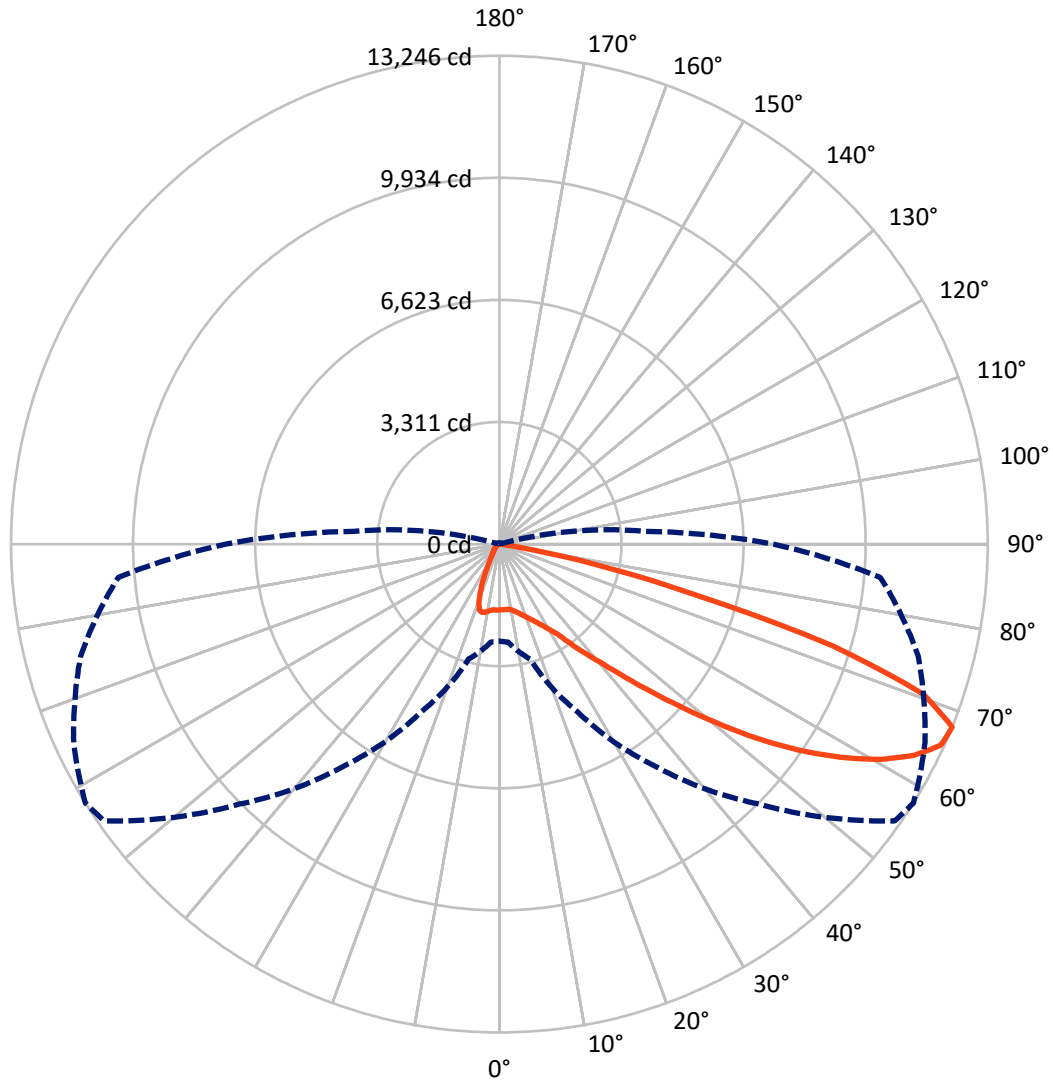
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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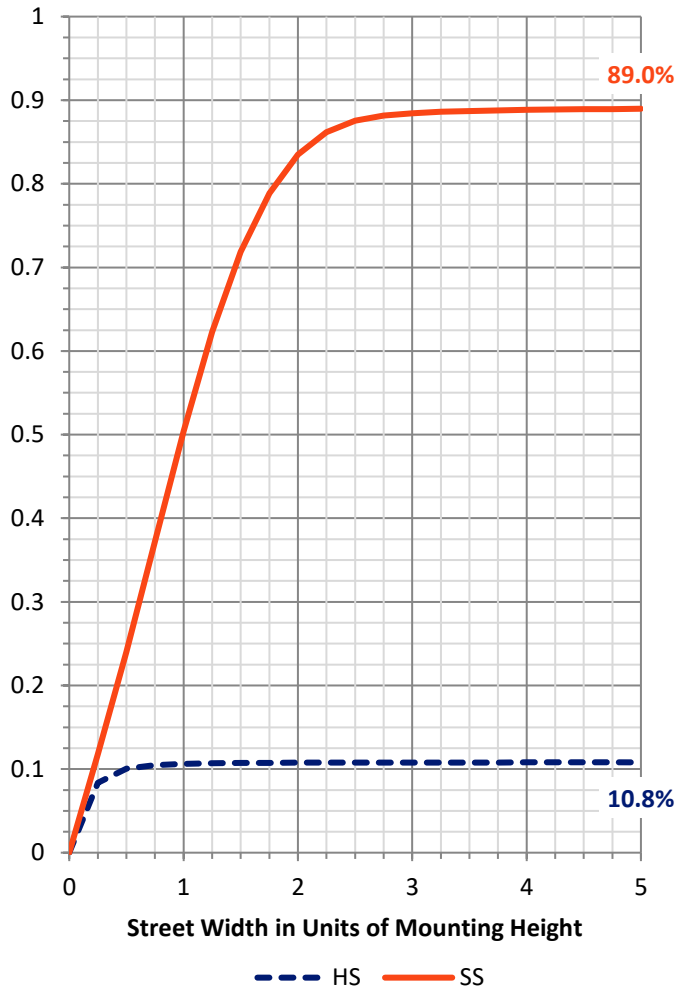
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1786.1	0.0	1786.1
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	14585.4	0.0	14585.4
	% Fixture	89.1	0.0	89.1
Total	Lumens	16371.5	0.0	16371.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.6	1.0
10°-20°	470.5	2.9
20°-30°	821.3	5.0
30°-40°	1466.8	9.0
40°-50°	2681.0	16.4
50°-60°	4458.8	27.2
60°-70°	4843.0	29.6
70°-80°	1422.0	8.7
80°-90°	40.5	0.2
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°	16371.5	100.0
0°-180°	16371.5	100.0

Coefficient of Utilization



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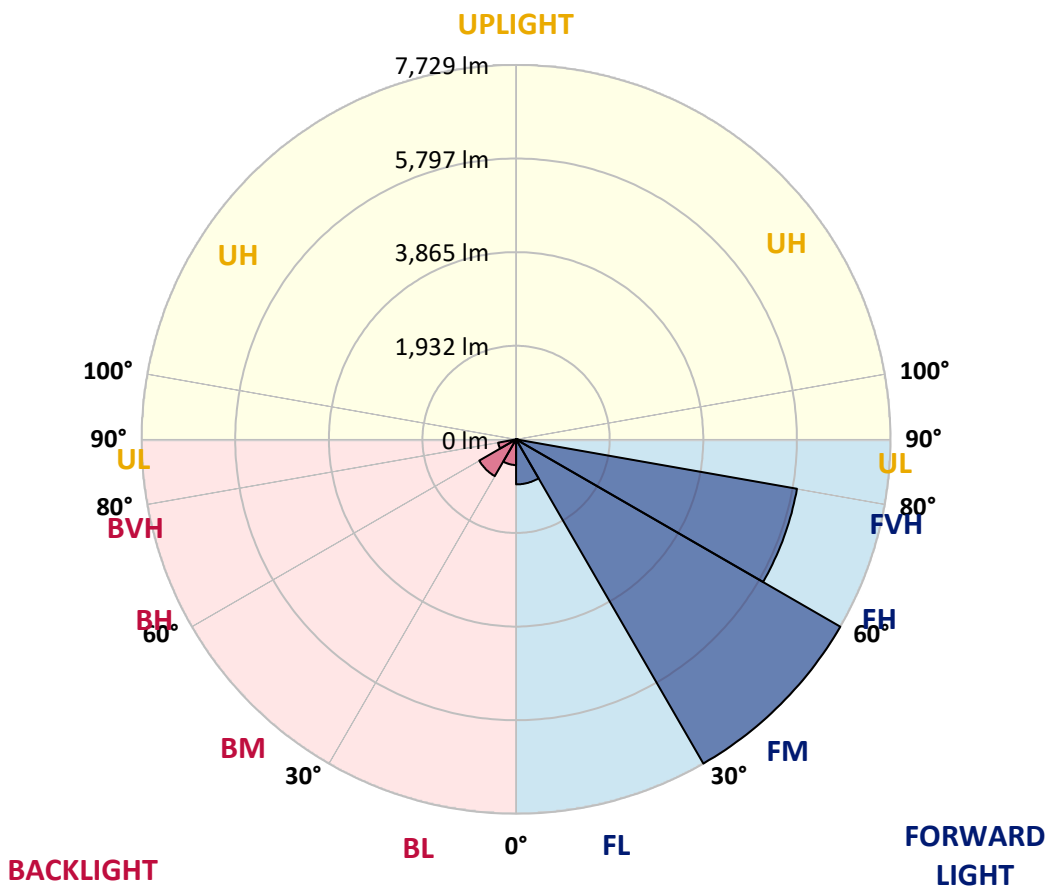
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	929.6	5.7			
FM (30°-60°)	7729.3	47.2			
FH (60°-80°)	5887.9	36.0			G3/7500
FVH (80°-90°)	38.5	0.2			G1/100
BL (0°-30°)	529.8	3.2	B2/1000		
BM (30°-60°)	877.3	5.4	B1/1000		
BH (60°-80°)	377.0	2.3	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: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0
2.5°	1750.4	1747.2	1747.2	1760.0	1761.6	1768.0	1782.4	1784.0	1792.0	1788.8	1777.6
5°	1659.3	1660.9	1670.5	1692.9	1712.1	1736.0	1771.2	1779.2	1796.8	1806.4	1800.0
7.5°	1574.6	1576.2	1590.6	1625.7	1662.5	1710.5	1768.0	1784.0	1819.2	1844.8	1846.3
10°	1542.6	1541.0	1555.4	1595.4	1643.3	1710.5	1793.6	1814.4	1867.1	1911.9	1919.9
12.5°	1552.2	1550.6	1565.0	1601.8	1654.5	1739.2	1838.4	1867.1	1934.3	2003.0	2017.4
15°	1590.6	1589.0	1598.6	1628.9	1686.5	1774.4	1895.9	1939.1	2023.8	2106.9	2129.3
17.5°	1705.7	1697.7	1688.1	1691.3	1724.9	1816.0	1969.4	2022.2	2127.7	2226.8	2246.0
20°	1910.3	1889.5	1863.9	1830.4	1814.4	1876.7	2054.2	2114.9	2242.8	2356.3	2359.5
22.5°	2218.8	2210.8	2151.7	2054.2	1985.4	1987.0	2153.3	2223.6	2380.3	2505.0	2487.4
25°	2648.8	2644.0	2552.9	2393.1	2214.0	2153.3	2279.6	2351.5	2543.3	2676.0	2620.1
27.5°	3182.8	3149.2	3042.1	2826.3	2559.3	2369.1	2439.4	2503.4	2716.0	2840.7	2735.2
30°	3647.9	3649.5	3548.8	3323.4	3022.9	2693.6	2634.4	2690.4	2874.2	3005.3	2877.4
32.5°	4095.5	4109.9	3999.6	3796.6	3467.3	3117.2	2914.2	2923.8	3077.2	3219.5	3064.5
35°	4511.2	4522.4	4445.6	4273.0	3966.1	3560.0	3304.2	3299.4	3382.6	3528.0	3325.0
37.5°	4976.3	4987.5	4912.4	4757.3	4469.6	4066.8	3747.0	3740.7	3774.2	3892.5	3660.7
40°	5471.9	5492.7	5409.6	5278.5	5003.5	4663.0	4261.8	4204.2	4170.7	4309.7	4095.5
42.5°	5973.9	6005.8	5977.1	5846.0	5611.0	5329.6	4930.0	4840.5	4768.5	4942.8	4715.8
45°	6597.3	6635.7	6622.9	6522.2	6339.9	6111.3	5734.1	5630.2	5596.6	5758.0	5487.9
47.5°	7196.8	7238.3	7284.7	7262.3	7132.8	7027.3	6608.5	6549.3	6539.8	6712.4	6293.6
50°	7642.8	7681.1	7858.6	7986.5	8074.4	8052.0	7689.1	7601.2	7586.8	7697.1	7144.0
52.5°	7962.5	7999.2	8243.8	8643.5	8966.4	9142.2	8776.2	8757.0	8678.6	8640.3	7940.1
55°	8210.3	8261.4	8518.8	9123.0	9773.7	10163.7	9935.1	9866.4	9665.0	9444.4	8678.6
57.5°	8259.8	8280.6	8643.5	9458.7	10400.3	11031.7	11031.7	10911.8	10523.4	10218.1	9532.3
60°	7815.4	7879.4	8370.1	9431.6	10668.9	11599.2	11941.3	11858.2	11333.9	10958.2	10353.9
62.5°	6829.1	6901.0	7498.9	8780.9	10400.3	11715.9	12630.3	12617.5	12026.0	11570.5	11034.9
65°	5236.9	5289.7	5810.8	7345.4	9265.3	11266.7	13122.7	13157.8	12572.8	11974.9	11269.9
67.5°	2631.2	2668.0	3230.7	5017.9	7343.8	9973.5	13089.1	13245.8	12739.0	11760.7	10373.1
70°	919.2	955.9	1221.3	2153.3	4469.6	7615.6	11957.3	12213.1	11762.3	10039.0	7652.4
72.5°	314.9	332.5	506.7	799.3	1739.2	4514.4	9092.7	9477.9	8670.6	6739.6	4397.7
75°	179.0	190.2	271.8	433.2	728.9	1485.1	5158.6	5395.2	5054.7	3673.5	1809.6
77.5°	121.5	131.1	169.4	246.2	402.8	478.0	2103.7	2648.8	2309.9	1198.9	462.0
80°	71.9	78.3	103.9	145.5	206.2	185.4	450.8	599.5	772.1	358.1	139.1
82.5°	33.6	38.4	67.1	95.9	103.9	78.3	132.7	161.5	217.4	175.8	57.5
85°	0.0	0.0	22.4	40.0	38.4	22.4	36.8	40.0	59.1	87.9	22.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.8	9.6	17.6	9.6
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°	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0
2.5°	1790.4	1779.2	1792.0	1785.6	1792.0	1790.4	1777.6	1769.6	1769.6	1755.2	1750.4
5°	1812.8	1801.6	1804.8	1790.4	1787.2	1779.2	1763.2	1756.8	1756.8	1742.4	1737.6
7.5°	1862.3	1844.8	1841.6	1812.8	1800.0	1777.6	1748.8	1737.6	1736.0	1721.7	1716.9
10°	1940.7	1919.9	1905.5	1868.7	1832.0	1787.2	1726.5	1675.3	1646.5	1608.2	1605.0
12.5°	2036.6	2011.0	1988.6	1932.7	1871.9	1771.2	1592.2	1405.1	1290.0	1198.9	1205.3
15°	2143.7	2119.7	2084.5	1999.8	1875.1	1613.0	1238.9	951.1	810.5	735.3	732.1
17.5°	2260.4	2225.2	2167.7	2052.6	1774.4	1232.5	805.7	569.1	495.6	470.0	463.6
20°	2369.1	2325.9	2254.0	2063.8	1483.5	834.5	503.5	441.2	428.4	420.4	420.4
22.5°	2484.2	2429.8	2322.7	1977.4	1103.0	533.9	428.4	414.0	404.4	393.2	391.6
25°	2600.9	2530.5	2385.1	1752.0	722.6	420.4	401.2	385.3	367.7	350.1	345.3
27.5°	2700.0	2608.9	2433.0	1416.3	463.6	378.9	366.1	338.9	314.9	295.7	292.5
30°	2818.3	2701.6	2453.8	1035.9	364.5	334.1	314.9	286.1	257.4	238.2	231.8
32.5°	2976.5	2848.7	2421.8	674.6	322.9	294.1	263.8	230.2	201.4	180.6	177.4
35°	3222.7	3070.9	2274.8	430.0	292.5	254.2	217.4	182.2	158.3	142.3	139.1
37.5°	3523.2	3382.6	2033.4	322.9	262.2	220.6	177.4	143.9	126.3	115.1	111.9
40°	3969.2	3772.6	1734.4	282.9	231.8	187.0	145.5	118.3	105.5	95.9	92.7
42.5°	4547.9	4233.0	1390.8	257.4	203.0	156.7	118.3	97.5	86.3	79.9	78.3
45°	5224.1	4682.2	1027.9	231.8	175.8	129.5	97.5	79.9	71.9	67.1	65.5
47.5°	5916.3	5075.5	709.8	204.6	150.3	107.1	81.5	68.7	62.3	55.9	54.4
50°	6654.8	5408.0	484.4	177.4	127.9	87.9	70.3	62.3	54.4	49.6	48.0
52.5°	7196.8	5531.1	337.3	153.5	108.7	75.1	62.3	55.9	49.6	43.2	41.6
55°	7697.1	5527.9	255.8	129.5	92.7	65.5	55.9	49.6	43.2	38.4	36.8
57.5°	8195.9	5484.7	201.4	110.3	79.9	59.1	49.6	43.2	40.0	33.6	32.0
60°	8518.8	5321.6	156.7	92.7	68.7	51.2	43.2	38.4	33.6	28.8	27.2
62.5°	8689.8	5094.6	119.9	73.5	55.9	44.8	38.4	33.6	28.8	24.0	22.4
65°	8458.0	4691.8	94.3	57.5	43.2	38.4	32.0	27.2	22.4	17.6	16.0
67.5°	7430.2	3956.5	73.5	46.4	33.6	28.8	27.2	22.4	16.0	12.8	11.2
70°	5251.3	2709.6	57.5	35.2	25.6	22.4	20.8	17.6	12.8	9.6	8.0
72.5°	2882.2	1366.8	41.6	25.6	19.2	17.6	16.0	14.4	11.2	8.0	8.0
75°	1109.4	375.7	30.4	17.6	12.8	12.8	11.2	11.2	9.6	6.4	6.4
77.5°	289.3	111.9	19.2	11.2	8.0	8.0	8.0	6.4	6.4	4.8	4.8
80°	92.7	36.8	11.2	8.0	6.4	4.8	4.8	3.2	4.8	3.2	3.2
82.5°	30.4	12.8	6.4	6.4	4.8	3.2	3.2	1.6	1.6	0.0	0.0
85°	11.2	6.4	4.8	3.2	3.2	3.2	1.6	0.0	0.0	0.0	0.0
87.5°	6.4	3.2	3.2	3.2	3.2	1.6	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)