

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: P633275

Luminaire Tested: GWS-SA2E-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-735-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9025.9 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

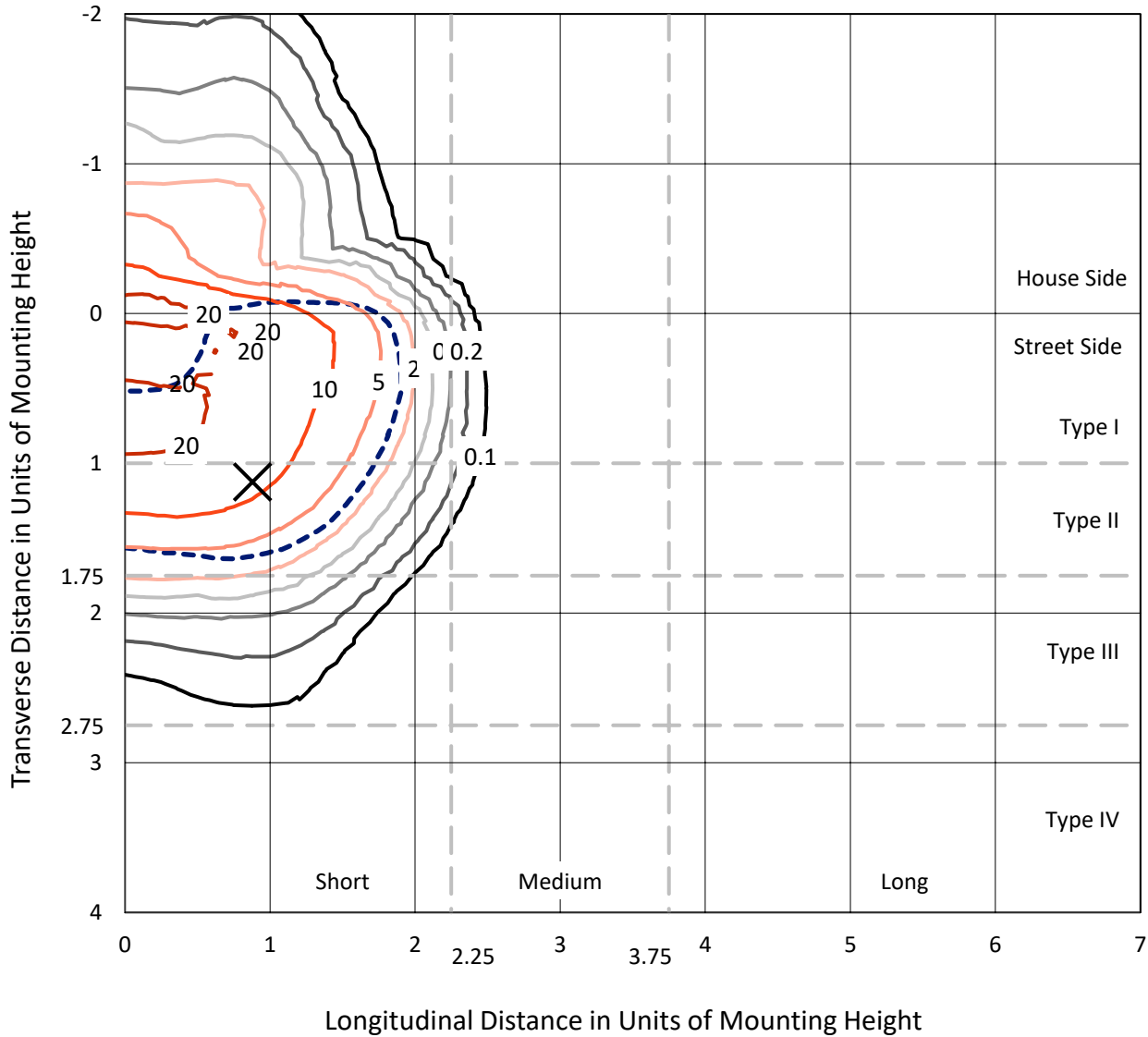
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

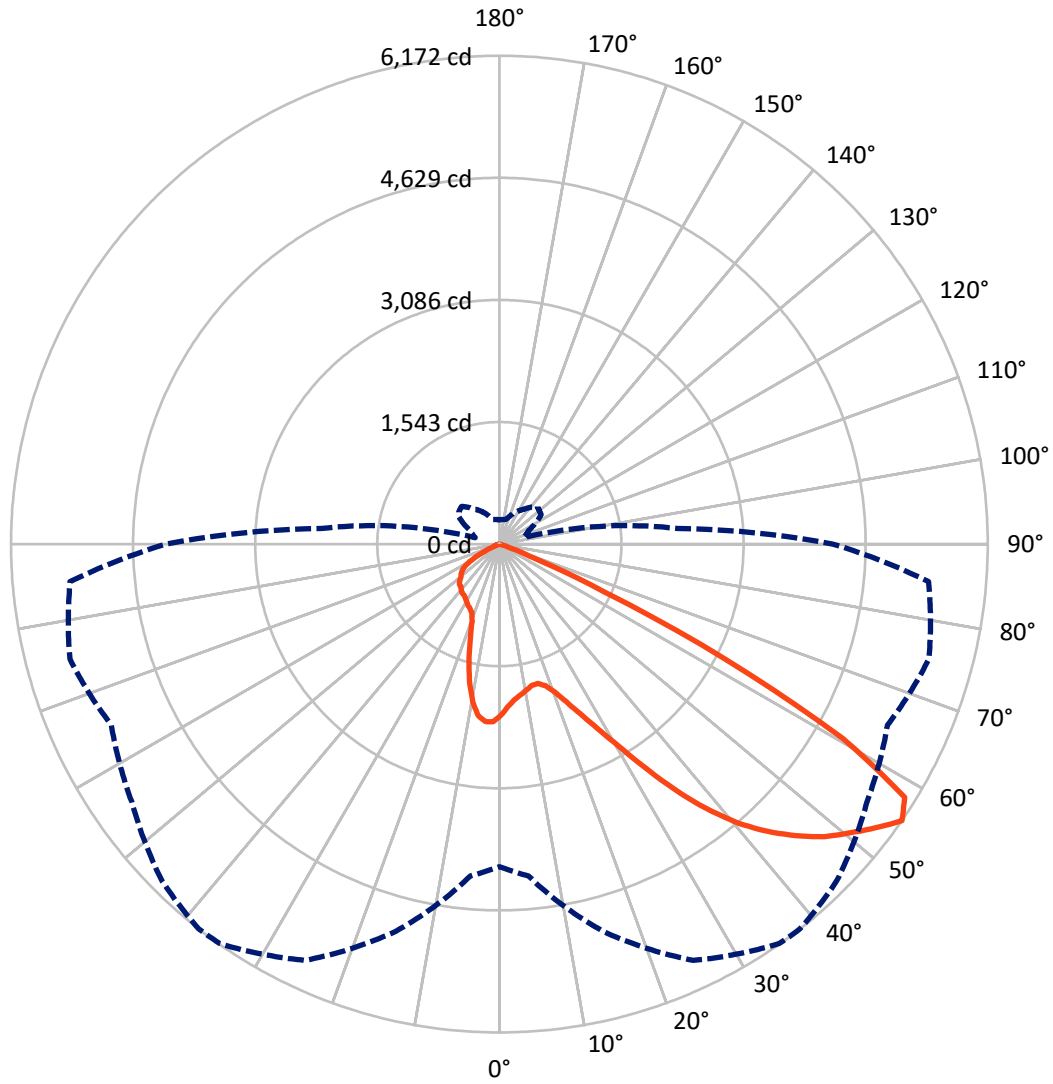
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.6 fc
 Type II - Short - N/A

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CATALOG NUMBER: GWS-SA2E-735-U-T3R-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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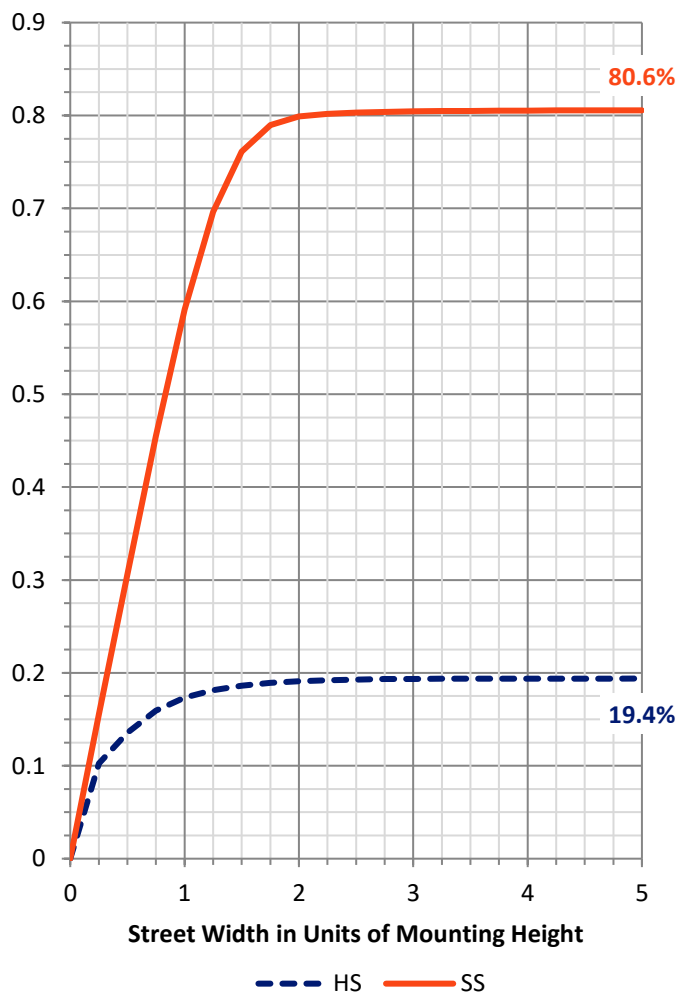
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1758.5	0.0	1758.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	7267.4	0.0	7267.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	9025.9	0.0	9025.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.1	2.2
10°-20°	538.8	6.0
20°-30°	924.6	10.2
30°-40°	1533.5	17.0
40°-50°	2254.3	25.0
50°-60°	2634.2	29.2
60°-70°	892.9	9.9
70°-80°	45.7	0.5
80°-90°	1.8	0.0
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°	9025.9	100.0
0°-180°	9025.9	100.0

Coefficient of Utilization

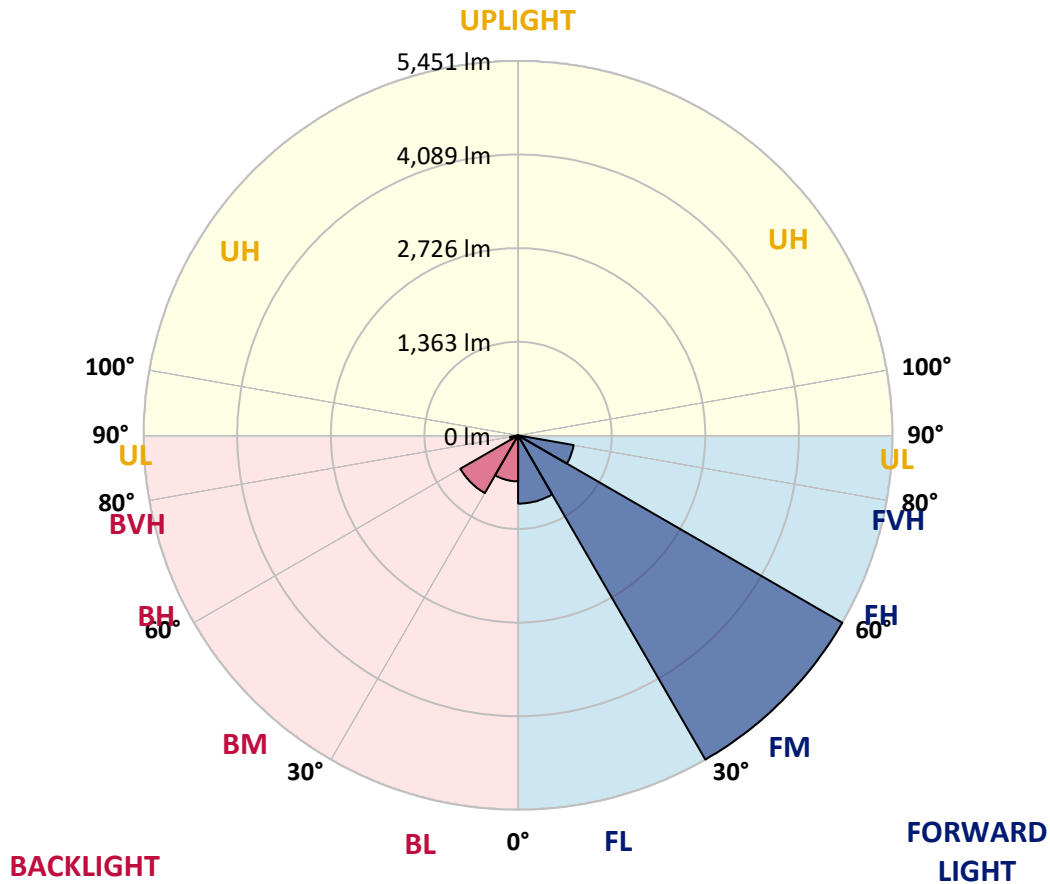


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	993.5	11.0			
FM (30°-60°)	5451.4	60.4			
FH (60°-80°)	821.5	9.1			G1/1800
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	670.0	7.4	B2/1000		
BM (30°-60°)	970.6	10.8	B1/1000		
BH (60°-80°)	117.1	1.3	B1/500		G1/500
BVH (80°-90°)	0.8	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5
2.5°	2015.9	2011.8	2020.0	2036.6	2052.0	2057.2	2072.7	2094.3	2107.7	2139.7	2165.5
5°	1925.1	1923.1	1931.3	1945.8	1966.4	1973.6	1997.3	2033.5	2069.6	2125.3	2180.0
7.5°	1842.6	1841.6	1853.9	1885.9	1915.8	1925.1	1954.0	1998.4	2046.9	2132.5	2213.0
10°	1734.3	1735.3	1759.0	1804.4	1859.1	1877.7	1924.1	1988.1	2051.0	2161.4	2272.8
12.5°	1699.2	1701.3	1713.6	1748.7	1808.5	1832.3	1897.3	1994.3	2074.7	2202.7	2350.2
15°	1784.8	1784.8	1774.5	1778.6	1805.5	1827.1	1895.2	2014.9	2115.0	2252.2	2426.5
17.5°	1950.9	1944.7	1918.9	1883.9	1874.6	1881.8	1936.5	2059.2	2171.7	2309.9	2513.2
20°	2175.8	2177.9	2127.3	2054.1	1995.3	1994.3	2027.3	2137.7	2253.2	2379.1	2607.1
22.5°	2448.2	2439.9	2372.9	2272.8	2170.7	2162.4	2175.8	2257.3	2370.8	2488.4	2722.6
25°	2763.9	2759.8	2664.8	2530.7	2395.6	2376.0	2376.0	2456.4	2539.0	2644.2	2860.9
27.5°	3094.0	3094.0	3002.2	2847.5	2667.9	2632.9	2627.7	2722.6	2777.3	2797.9	2977.4
30°	3433.5	3429.3	3338.5	3179.7	2987.8	2951.7	2937.2	3007.4	3046.6	2984.7	3122.9
32.5°	3778.0	3785.3	3693.4	3545.9	3374.6	3350.9	3306.6	3306.6	3338.5	3251.9	3352.0
35°	4148.4	4146.4	4074.1	3974.1	3827.6	3800.7	3727.5	3613.0	3661.5	3623.3	3668.7
37.5°	4475.5	4490.9	4455.9	4381.6	4262.9	4236.1	4115.4	3908.0	3945.2	4005.0	4045.2
40°	4807.7	4820.0	4855.1	4831.4	4681.8	4632.3	4417.7	4077.2	4118.5	4323.8	4439.4
42.5°	5133.7	5139.9	5211.1	5250.3	5050.1	4963.4	4646.7	4180.4	4223.7	4573.5	4775.7
45°	5341.0	5354.5	5472.1	5591.7	5375.1	5256.4	4845.8	4312.5	4331.0	4746.8	5024.3
47.5°	5332.8	5363.7	5584.5	5802.2	5654.7	5526.7	5085.2	4523.9	4493.0	4909.8	5188.4
50°	5166.7	5203.8	5520.6	5866.2	5855.9	5737.2	5351.4	4830.4	4733.4	5054.2	5209.0
52.5°	4822.1	4929.4	5408.1	5874.4	6017.8	5958.0	5680.5	5243.0	5058.4	5261.6	5242.0
55°	4077.2	4209.3	5066.6	5804.3	6164.3	6171.6	6026.1	5673.2	5411.2	5618.6	5445.2
57.5°	3095.1	3200.3	3899.8	5166.7	5921.9	6040.5	6160.2	5900.2	5628.9	5862.0	5492.7
60°	1865.3	1987.0	2442.0	3791.5	4782.9	4985.1	5454.5	5404.0	5076.9	5177.0	4504.3
62.5°	756.2	820.2	1127.6	2089.2	3010.5	3199.3	3649.1	3725.4	3645.0	3542.8	2731.9
65°	276.5	302.3	451.9	863.5	1384.5	1453.6	1690.9	1826.1	1937.5	1649.7	1016.2
67.5°	171.3	187.8	294.0	443.6	503.5	468.4	476.6	568.5	542.7	335.3	181.6
70°	126.9	140.3	230.1	307.4	203.2	156.8	106.3	113.5	102.1	89.8	88.7
72.5°	87.7	100.1	172.3	181.6	78.4	55.7	39.2	54.7	61.9	60.9	62.9
75°	57.8	67.1	108.3	71.2	19.6	15.5	13.4	28.9	37.1	37.1	38.2
77.5°	34.0	39.2	38.2	14.4	4.1	4.1	3.1	5.2	8.3	9.3	11.3
80°	4.1	3.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1	3.1	3.1
82.5°	1.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1	2.1	3.1	3.1
85°	0.0	0.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1	3.1	3.1
87.5°	0.0	0.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1	3.1	3.1
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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CATALOG NUMBER: GWS-SA2E-735-U-T3R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5	2164.5
2.5°	2185.1	2177.9	2207.8	2229.5	2247.0	2255.3	2243.9	2242.9	2242.9	2220.2	2214.0
5°	2210.9	2214.0	2256.3	2274.9	2278.0	2267.6	2241.9	2224.3	2214.0	2190.3	2176.9
7.5°	2260.4	2270.7	2311.0	2307.9	2280.0	2232.6	2164.5	2111.9	2077.8	2040.7	2018.0
10°	2331.6	2351.2	2376.0	2332.6	2243.9	2123.2	1982.9	1882.8	1823.0	1780.7	1754.9
12.5°	2418.3	2437.9	2429.6	2327.5	2142.8	1927.2	1746.6	1602.2	1533.1	1494.9	1468.1
15°	2506.0	2518.3	2464.7	2265.6	1964.3	1674.4	1473.2	1329.8	1245.2	1214.3	1191.6
17.5°	2595.7	2592.6	2470.9	2143.8	1726.0	1389.7	1191.6	1093.6	1069.9	1064.7	1062.6
20°	2689.6	2661.8	2446.1	1969.5	1439.2	1108.0	995.6	1001.8	1045.1	1065.7	1069.9
22.5°	2796.9	2726.7	2384.2	1733.2	1146.2	923.4	934.7	995.6	1054.4	1082.2	1086.4
25°	2911.4	2786.6	2281.1	1429.9	903.8	849.1	916.1	986.3	1049.2	1083.3	1087.4
27.5°	2986.7	2801.0	2111.9	1124.5	775.8	820.2	891.4	958.4	1023.4	1060.6	1065.7
30°	3068.2	2794.8	1881.8	866.6	732.5	795.4	857.3	918.2	978.0	1019.3	1023.4
32.5°	3187.9	2790.7	1601.2	703.6	715.0	775.8	821.2	871.8	913.0	936.8	933.7
35°	3344.7	2785.6	1274.1	634.5	704.6	760.4	796.5	820.2	774.8	760.4	763.4
37.5°	3545.9	2797.9	998.7	605.6	701.5	756.2	787.2	719.1	648.9	622.1	618.0
40°	3768.8	2829.9	761.4	594.3	711.9	766.5	752.1	639.6	553.0	500.4	489.0
42.5°	3992.6	2865.0	602.5	590.1	729.4	795.4	694.3	581.9	451.9	422.0	417.8
45°	4158.7	2858.8	521.0	582.9	744.9	811.9	678.9	499.3	403.4	390.0	391.0
47.5°	4242.3	2790.7	476.6	566.4	751.1	795.4	640.7	465.3	370.4	384.8	397.2
50°	4197.9	2614.3	435.4	534.4	737.7	773.8	579.8	439.5	353.9	413.7	441.6
52.5°	4144.3	2397.6	390.0	484.9	705.7	743.8	556.1	432.3	343.6	399.3	419.9
55°	4215.5	2260.4	315.7	408.5	642.7	673.7	537.5	431.2	319.8	310.5	307.4
57.5°	4115.4	1987.0	225.9	294.0	493.1	533.4	524.1	424.0	283.7	282.7	286.8
60°	3180.7	1212.2	154.8	186.7	302.3	340.5	475.6	405.5	244.5	224.9	225.9
62.5°	1807.5	515.8	106.3	115.5	154.8	183.6	363.2	368.3	225.9	214.6	225.9
65°	629.3	184.7	82.5	77.4	85.6	98.0	208.4	284.7	205.3	185.7	187.8
67.5°	130.0	91.8	73.2	64.0	64.0	64.0	106.3	177.5	169.2	147.5	149.6
70°	82.5	78.4	64.0	54.7	52.6	48.5	60.9	98.0	116.6	107.3	108.3
72.5°	60.9	59.8	50.6	44.4	39.2	35.1	38.2	48.5	59.8	61.9	62.9
75°	37.1	38.2	33.0	27.9	24.8	21.7	22.7	22.7	22.7	20.6	22.7
77.5°	11.3	12.4	10.3	8.3	7.2	7.2	7.2	6.2	5.2	3.1	3.1
80°	3.1	3.1	3.1	3.1	3.1	2.1	2.1	1.0	1.0	0.0	0.0
82.5°	3.1	3.1	3.1	3.1	2.1	2.1	1.0	1.0	0.0	0.0	0.0
85°	3.1	3.1	3.1	3.1	2.1	2.1	1.0	1.0	0.0	0.0	0.0
87.5°	3.1	3.1	3.1	3.1	2.1	2.1	1.0	1.0	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)