

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: P639040

Luminaire Tested: GWS-SA5B-722-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-722-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9796.8 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

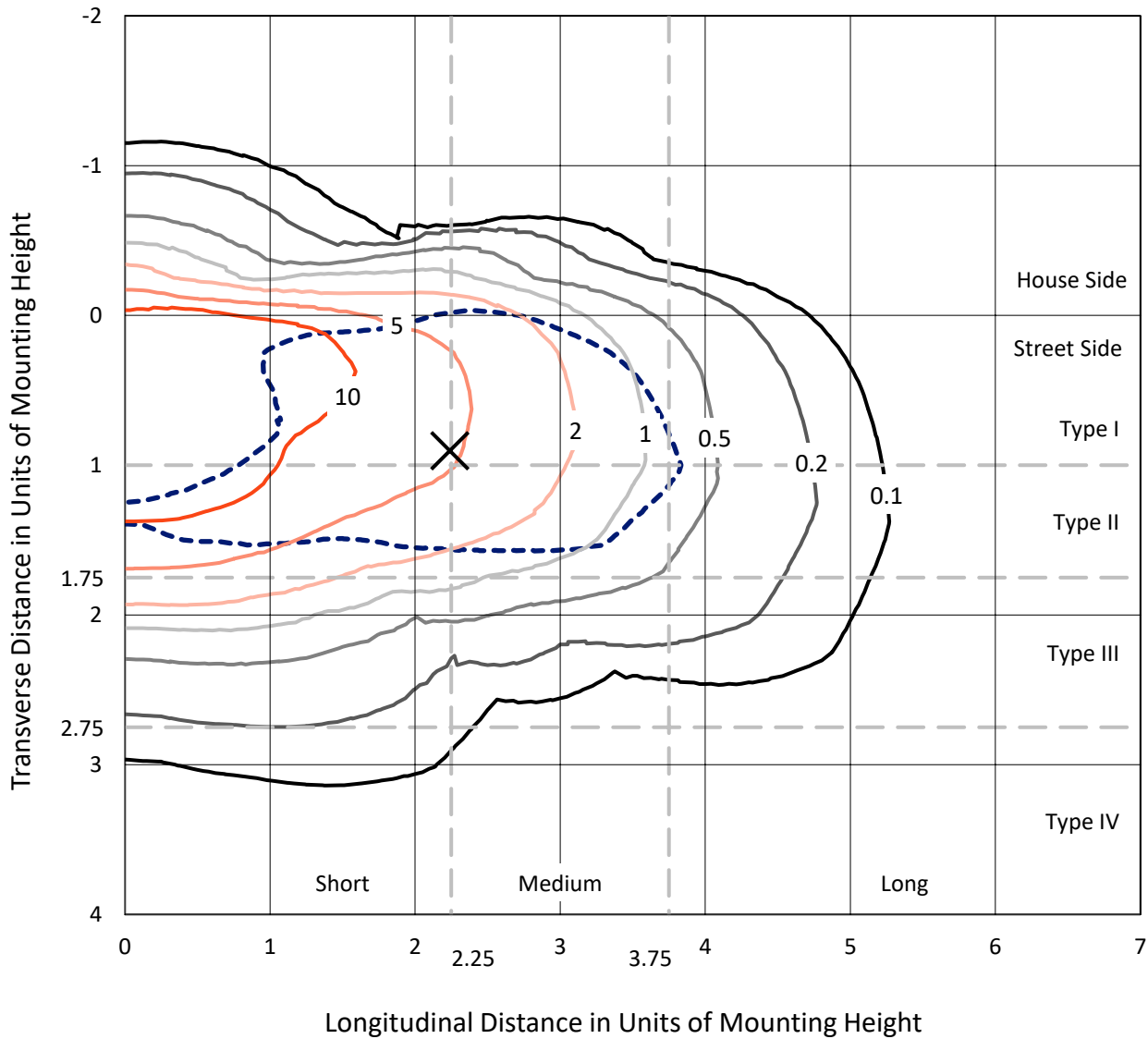
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

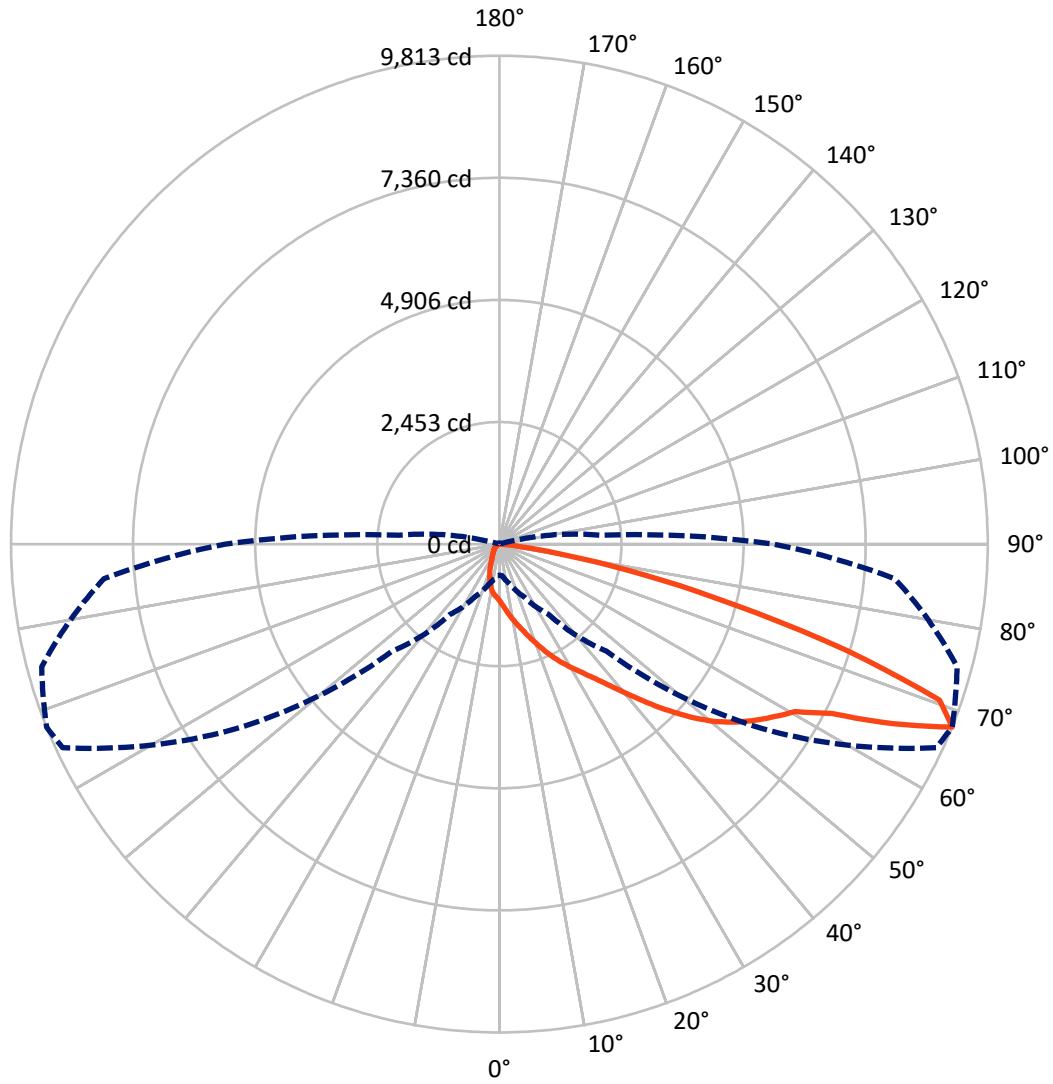
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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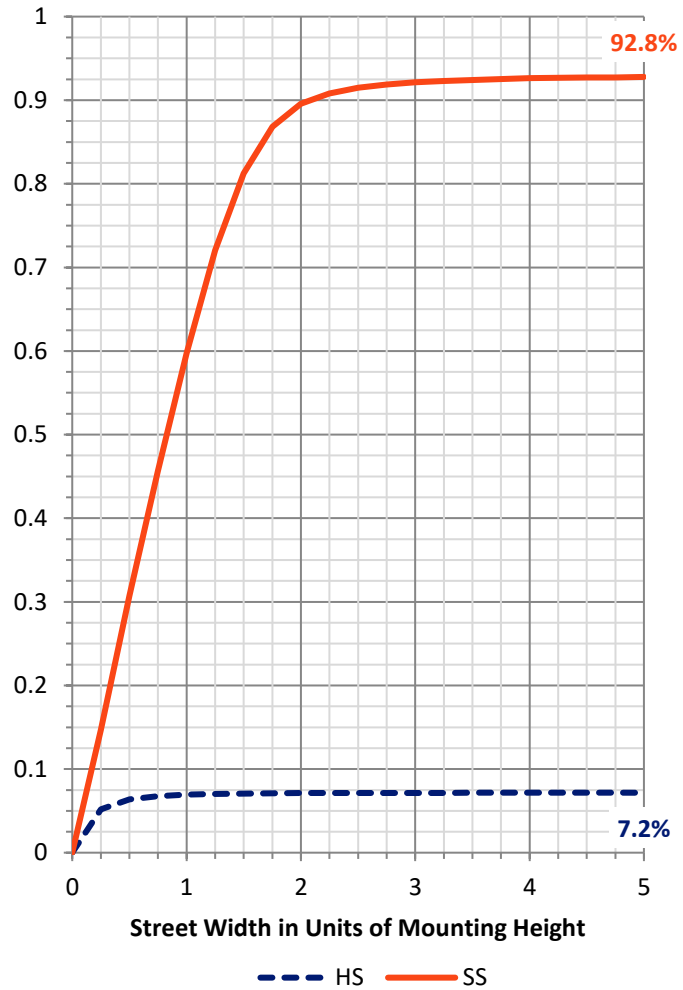
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	707.5	0.0	707.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	9089.4	0.0	9089.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	9796.8	0.0	9796.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	1.1
10°-20°	319.3	3.3
20°-30°	548.7	5.6
30°-40°	954.1	9.7
40°-50°	1664.7	17.0
50°-60°	2510.9	25.6
60°-70°	2517.7	25.7
70°-80°	1110.8	11.3
80°-90°	59.3	0.6
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°	9796.8	100.0
0°-180°	9796.8	100.0

Coefficient of Utilization



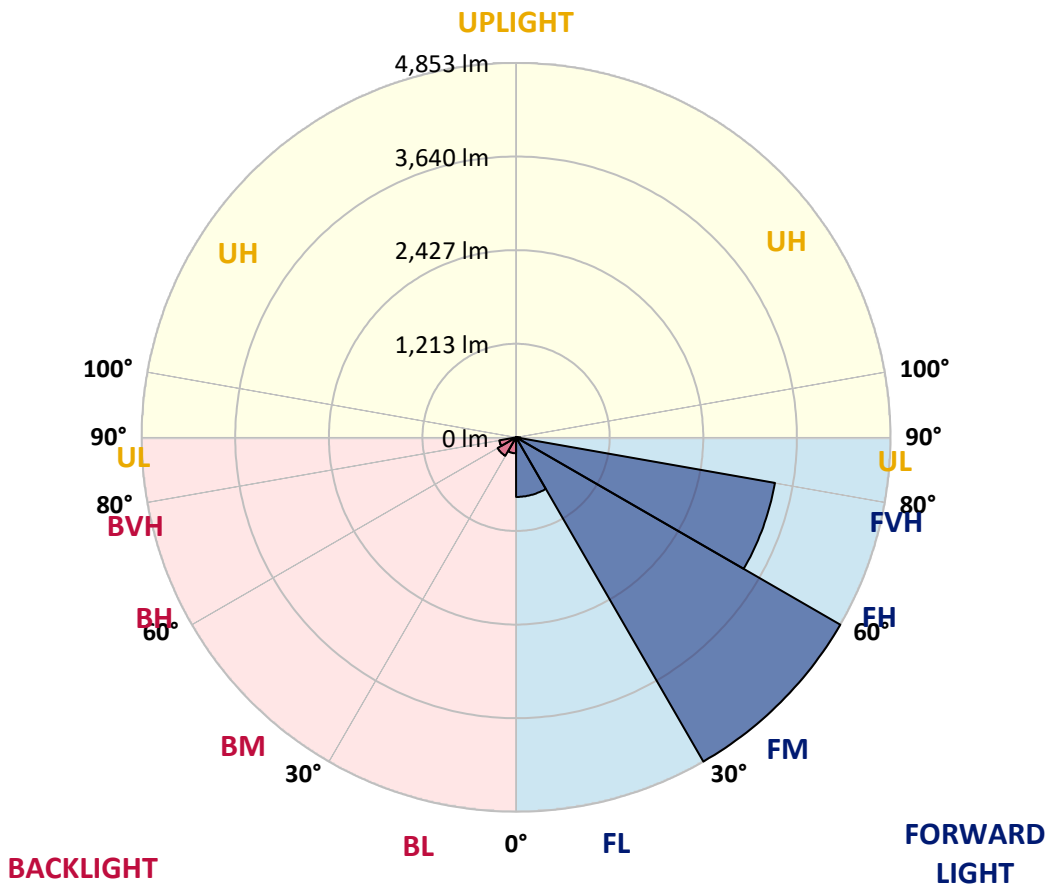
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	772.3	7.9			
FM (30°-60°)	4853.3	49.5			
FH (60°-80°)	3407.8	34.8			G2/5000
FVH (80°-90°)	56.0	0.6			G1/100
BL (0°-30°)	207.0	2.1	B1/500		
BM (30°-60°)	276.3	2.8	B1/1000		
BH (60°-80°)	220.8	2.3	B1/500		G1/500
BVH (80°-90°)	3.4	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1
2.5°	1327.6	1336.1	1327.6	1329.5	1305.1	1293.9	1269.5	1235.7	1227.3	1205.7	1172.9
5°	1489.8	1497.3	1488.9	1487.0	1458.9	1438.2	1397.9	1339.8	1322.9	1280.7	1216.0
7.5°	1577.9	1582.6	1585.4	1590.1	1579.8	1562.9	1526.4	1454.2	1436.4	1367.9	1277.0
10°	1587.3	1591.1	1605.1	1633.3	1653.9	1664.2	1643.6	1577.0	1548.9	1482.3	1352.0
12.5°	1561.1	1566.7	1589.2	1636.1	1693.3	1745.8	1758.9	1700.8	1675.5	1590.1	1440.1
15°	1526.4	1531.1	1562.0	1625.8	1712.0	1808.6	1863.0	1837.7	1809.5	1720.5	1537.6
17.5°	1472.9	1479.5	1522.6	1608.9	1720.5	1858.3	1975.5	1983.9	1964.2	1867.7	1645.5
20°	1442.9	1447.6	1486.1	1575.1	1714.8	1894.9	2080.5	2160.2	2138.6	2037.4	1769.2
22.5°	1468.3	1472.0	1497.3	1566.7	1696.1	1915.5	2178.0	2336.5	2324.3	2219.3	1899.5
25°	1601.4	1613.6	1598.6	1610.8	1704.5	1926.7	2256.8	2512.7	2515.5	2409.6	2034.6
27.5°	1871.4	1855.5	1819.8	1758.9	1770.2	1956.7	2324.3	2678.7	2703.0	2595.2	2154.6
30°	2146.1	2136.7	2115.2	2020.5	1941.7	2023.3	2381.5	2848.4	2886.8	2778.1	2261.4
32.5°	2454.6	2464.0	2425.5	2312.1	2178.0	2158.3	2440.5	3009.6	3081.8	2985.3	2387.1
35°	2823.1	2825.9	2749.9	2624.3	2472.4	2381.5	2546.5	3187.8	3320.9	3249.7	2554.9
37.5°	3182.1	3199.0	3157.8	2959.9	2824.9	2659.0	2721.8	3416.5	3604.1	3575.9	2765.9
40°	3500.0	3526.2	3513.1	3321.8	3144.6	3004.9	2993.7	3684.7	3946.3	3978.2	3044.3
42.5°	3753.1	3770.0	3780.3	3644.4	3487.8	3409.0	3329.3	3996.0	4350.4	4480.7	3385.6
45°	4020.3	4026.0	4047.5	3955.7	3818.8	3825.3	3725.9	4373.8	4776.0	5037.6	3777.5
47.5°	4360.7	4379.4	4369.1	4272.6	4148.8	4222.9	4135.7	4762.9	5196.1	5632.0	4178.8
50°	4775.1	4794.8	4785.4	4672.9	4535.1	4566.0	4511.6	5140.8	5601.1	6192.7	4512.6
52.5°	4988.9	5004.8	5121.1	5171.7	5099.5	4902.6	4832.3	5556.1	5943.3	6654.0	4819.2
55°	4885.7	4897.0	5150.1	5363.9	5628.3	5431.4	5154.8	5876.8	6245.2	7014.0	5047.0
57.5°	4458.2	4519.1	4863.2	5225.1	5781.1	5953.6	5678.0	6225.5	6535.9	7264.4	5271.1
60°	3581.6	3578.7	4071.9	4721.7	5483.0	6097.1	6416.8	6697.1	6827.5	7456.6	5571.1
62.5°	1979.2	1997.0	2653.4	3509.4	4654.2	5725.8	6970.9	7511.9	7492.2	7792.2	6040.8
65°	985.4	1021.0	1377.3	2010.2	3096.8	4732.0	7066.5	8755.1	8698.9	8582.6	7011.2
67.5°	625.4	639.4	836.3	1168.2	1721.4	3041.5	6471.2	9682.4	9812.7	9520.2	7974.1
70°	405.0	428.5	581.3	798.8	1038.8	1567.6	4740.4	9081.4	9380.5	9417.1	7374.1
72.5°	220.3	237.2	371.3	570.0	750.1	783.8	2662.7	6815.3	7296.3	7988.2	5768.9
75°	125.6	137.8	203.5	387.2	550.4	477.2	1180.4	4562.3	4868.9	5708.9	4133.8
77.5°	75.9	86.3	114.4	188.5	345.0	318.8	446.3	2777.1	2972.1	3406.2	2169.6
80°	34.7	41.3	72.2	104.1	188.5	151.0	170.6	1294.8	1337.0	1397.9	718.2
82.5°	15.9	18.8	32.8	61.9	106.9	87.2	65.6	299.1	421.0	398.5	182.8
85°	1.9	1.9	12.2	25.3	30.0	22.5	27.2	67.5	85.3	120.0	52.5
87.5°	0.0	0.0	0.9	0.9	1.9	2.8	5.6	8.4	12.2	19.7	13.1
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1
2.5°	1157.9	1131.7	1108.2	1073.5	1050.1	1023.8	1006.0	984.5	976.0	969.5	960.1
5°	1184.2	1142.0	1084.8	1021.0	968.5	918.8	872.9	842.9	816.6	812.9	799.8
7.5°	1227.3	1164.5	1067.9	963.8	874.8	792.3	727.6	675.1	648.8	640.4	625.4
10°	1284.5	1198.2	1042.6	883.2	754.8	656.3	583.2	524.1	482.9	467.9	456.6
12.5°	1348.2	1229.2	1002.3	783.8	637.6	525.0	432.2	369.4	343.2	333.8	325.3
15°	1421.4	1258.2	938.5	684.4	523.2	386.3	320.7	293.5	282.2	279.4	276.6
17.5°	1491.7	1277.0	862.6	581.3	402.2	300.0	269.1	258.8	256.0	253.1	251.3
20°	1571.4	1290.1	773.5	483.8	312.2	254.1	239.1	231.6	226.0	220.3	219.4
22.5°	1653.0	1290.1	676.9	388.2	261.6	227.8	211.0	196.9	186.6	181.0	179.1
25°	1730.8	1272.3	581.3	310.3	230.6	202.5	181.0	165.0	151.0	144.4	142.5
27.5°	1786.1	1226.4	497.9	262.5	209.1	180.0	153.8	135.9	124.7	118.1	117.2
30°	1820.8	1157.9	421.0	234.4	190.3	156.6	130.3	115.3	106.9	102.2	100.3
32.5°	1847.0	1073.5	352.5	214.7	172.5	135.9	113.4	101.3	93.8	90.0	89.1
35°	1899.5	993.8	301.9	196.9	153.8	119.1	99.4	90.0	84.4	79.7	78.8
37.5°	1972.7	927.3	261.6	181.0	135.9	105.9	90.0	81.6	76.9	72.2	71.3
40°	2080.5	885.1	231.6	165.0	120.0	95.6	82.5	75.0	68.4	63.8	62.8
42.5°	2246.4	865.4	211.9	149.1	105.9	86.3	75.9	66.6	60.0	55.3	54.4
45°	2444.3	875.7	195.0	133.1	96.6	79.7	67.5	58.1	51.6	46.9	45.9
47.5°	2656.2	912.3	181.0	118.1	87.2	73.1	60.0	49.7	44.1	39.4	38.4
50°	2877.4	972.3	168.8	104.1	79.7	65.6	51.6	43.1	37.5	33.8	32.8
52.5°	3069.6	1053.8	156.6	93.8	73.1	58.1	45.0	37.5	31.9	28.1	27.2
55°	3253.4	1130.7	147.2	84.4	65.6	50.6	39.4	31.9	27.2	23.4	22.5
57.5°	3453.1	1212.3	135.9	75.9	59.1	45.0	34.7	27.2	23.4	19.7	18.8
60°	3743.8	1333.2	119.1	69.4	51.6	39.4	30.0	24.4	20.6	15.9	15.0
62.5°	4162.9	1553.6	100.3	60.0	44.1	33.8	25.3	20.6	16.9	13.1	11.3
65°	4946.7	1928.6	82.5	49.7	35.6	28.1	21.6	16.9	13.1	9.4	8.4
67.5°	5511.1	2026.1	66.6	40.3	29.1	21.6	17.8	13.1	9.4	6.6	5.6
70°	4818.2	1455.1	51.6	32.8	24.4	16.9	14.1	10.3	6.6	4.7	3.8
72.5°	3630.3	950.7	38.4	25.3	18.8	14.1	10.3	8.4	5.6	3.8	2.8
75°	2558.7	549.4	28.1	18.8	13.1	10.3	8.4	6.6	4.7	2.8	2.8
77.5°	1311.7	226.9	19.7	13.1	9.4	6.6	5.6	3.8	3.8	2.8	1.9
80°	398.5	75.0	11.3	8.4	6.6	4.7	2.8	2.8	2.8	1.9	0.9
82.5°	90.9	24.4	6.6	6.6	4.7	3.8	2.8	0.9	0.9	0.0	0.0
85°	23.4	7.5	5.6	4.7	4.7	3.8	1.9	0.9	0.0	0.0	0.0
87.5°	8.4	4.7	4.7	4.7	3.8	2.8	1.9	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)