

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: P637993

Luminaire Tested: GWS-SA4D-830-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-830-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11555.5 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

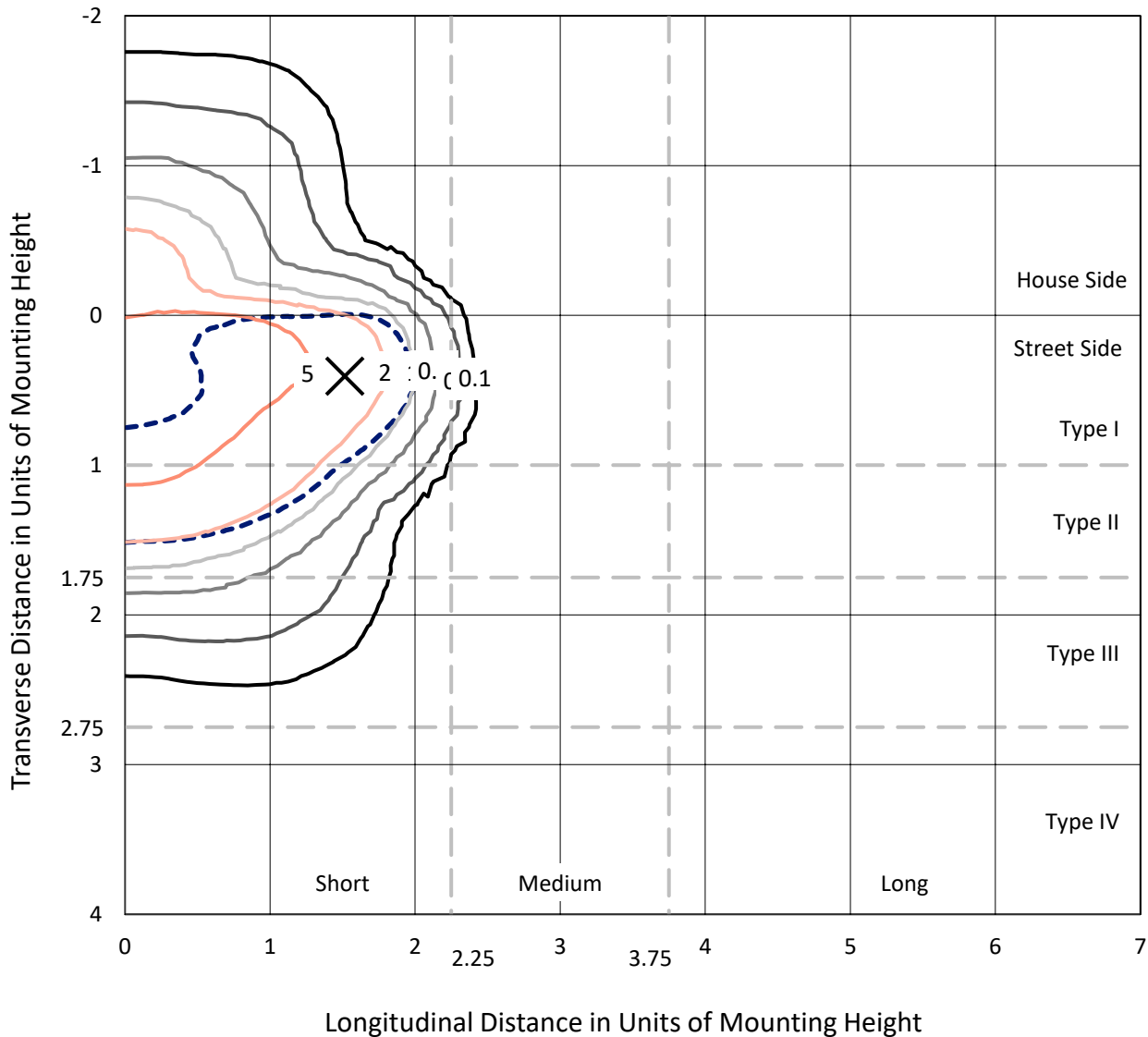
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

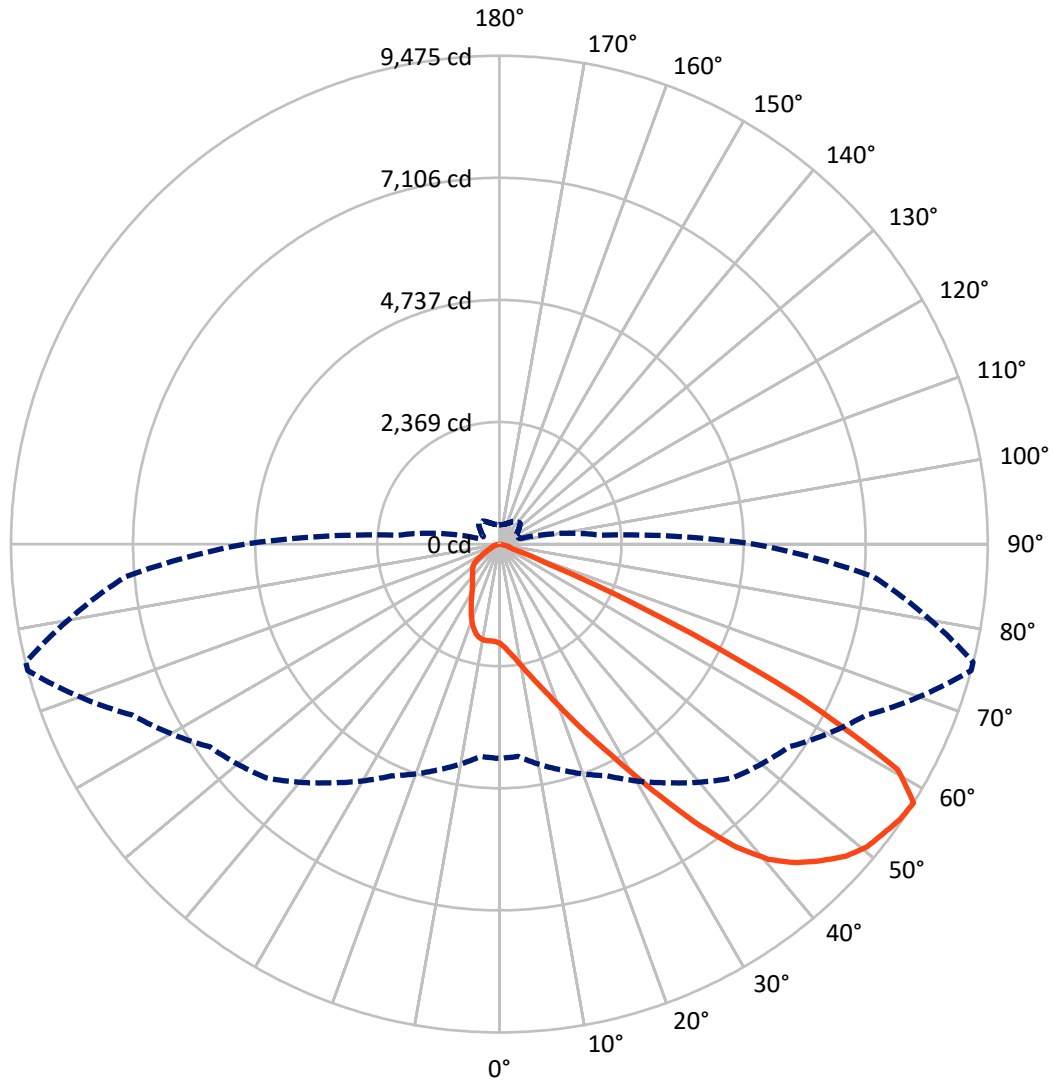
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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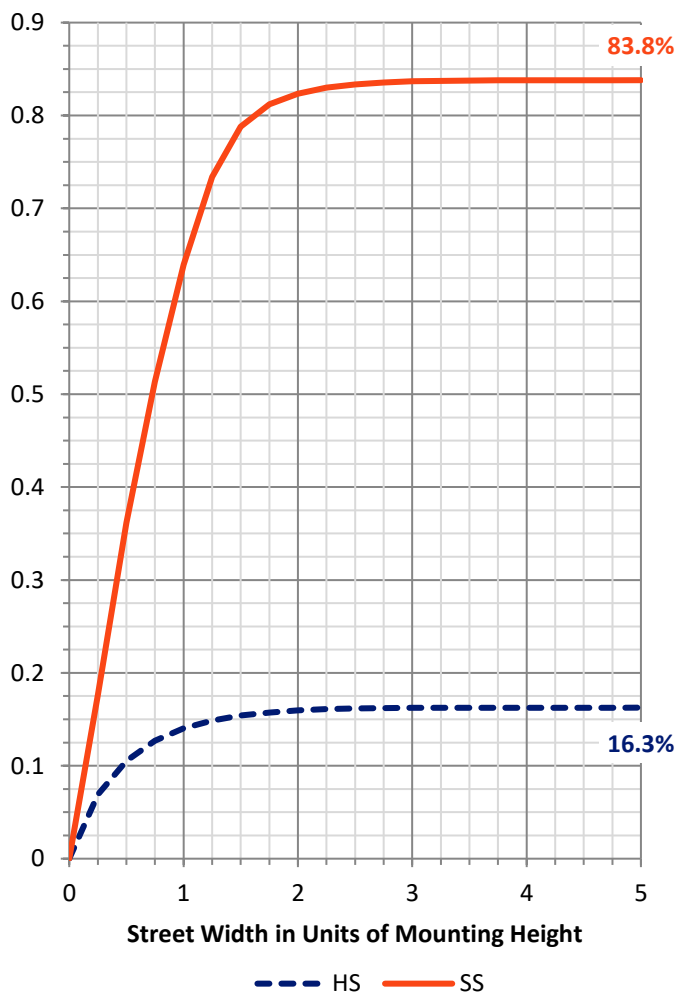
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1887.6	0.0	1887.6
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	9667.9	0.0	9667.9
	% Fixture	83.7	0.0	83.7
Total	Lumens	11555.5	0.0	11555.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.1	1.7
10°-20°	637.1	5.5
20°-30°	1166.6	10.1
30°-40°	1935.6	16.8
40°-50°	2956.1	25.6
50°-60°	3321.7	28.7
60°-70°	1225.2	10.6
70°-80°	117.1	1.0
80°-90°	0.1	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°	11555.5	100.0
0°-180°	11555.5	100.0

Coefficient of Utilization



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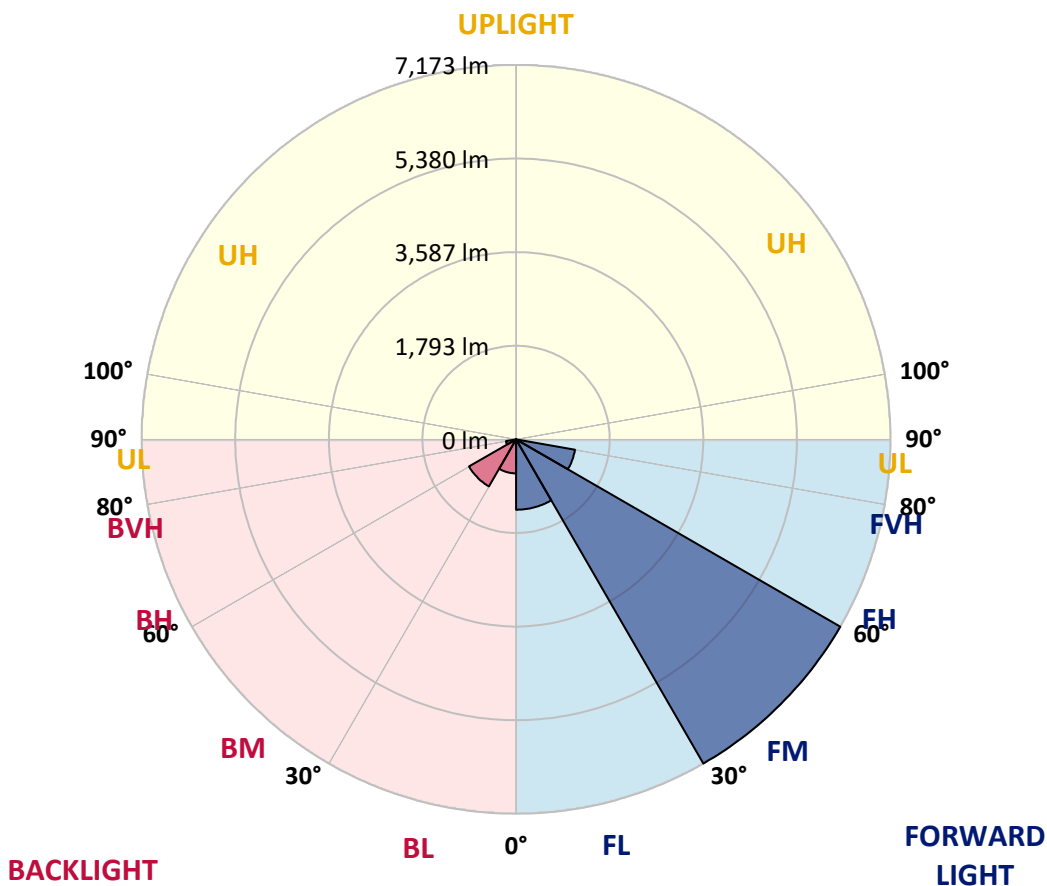
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1348.5	11.7			
FM (30°-60°)	7173.1	62.1			
FH (60°-80°)	1146.3	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	651.3	5.6	B2/1000		
BM (30°-60°)	1040.2	9.0	B2/2500		
BH (60°-80°)	196.0	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3
2.5°	2153.2	2175.5	2168.6	2154.6	2146.2	2117.0	2098.8	2045.8	2008.2	2004.0	1969.1
5°	2425.2	2421.0	2415.4	2398.7	2384.7	2338.7	2284.3	2195.1	2115.6	2105.8	2031.9
7.5°	2574.4	2577.2	2580.0	2577.2	2567.4	2532.5	2472.6	2368.0	2246.7	2238.3	2121.1
10°	2635.7	2641.3	2655.3	2681.8	2705.5	2702.7	2667.8	2560.4	2411.2	2397.3	2239.7
12.5°	2665.0	2672.0	2694.3	2744.5	2808.7	2858.9	2864.4	2768.2	2603.7	2581.4	2380.5
15°	2705.5	2712.4	2740.3	2805.9	2899.3	2998.3	3062.5	3001.1	2817.0	2793.3	2535.3
17.5°	2723.6	2733.4	2773.8	2860.3	2981.6	3133.6	3278.6	3273.1	3069.4	3051.3	2715.2
20°	2758.5	2765.4	2801.7	2895.1	3041.6	3260.5	3504.6	3592.4	3377.6	3351.2	2932.8
22.5°	2868.6	2871.4	2888.2	2946.7	3083.4	3352.5	3734.7	3964.8	3741.6	3706.8	3176.8
25°	3048.5	3047.1	3054.1	3063.9	3164.3	3446.0	3956.4	4384.5	4158.6	4121.0	3453.0
27.5°	3277.2	3277.2	3294.0	3266.1	3306.5	3561.7	4175.3	4867.1	4643.9	4590.9	3755.6
30°	3546.4	3545.0	3584.0	3539.4	3552.0	3744.4	4411.0	5392.8	5229.6	5164.1	4104.2
32.5°	3911.8	3903.4	3948.0	3886.7	3844.8	4020.5	4698.3	5942.3	5931.1	5830.7	4542.1
35°	4373.4	4359.4	4373.4	4313.4	4238.1	4406.8	5074.8	6490.3	6709.3	6603.3	5063.7
37.5°	4832.2	4876.8	4892.2	4789.0	4727.6	4896.3	5528.1	6981.2	7452.6	7342.4	5606.2
40°	5373.3	5359.3	5412.3	5296.6	5257.5	5444.4	5971.6	7346.6	8041.1	7936.5	6088.7
42.5°	5772.1	5797.2	5862.8	5798.6	5767.9	5943.7	6343.9	7560.0	8449.7	8346.5	6433.2
45°	6250.5	6268.6	6293.7	6240.7	6208.6	6381.6	6613.1	7653.4	8760.7	8649.1	6664.7
47.5°	6767.9	6781.8	6781.8	6673.0	6569.8	6640.9	6793.0	7706.4	9046.6	8939.2	6836.2
50°	7138.8	7145.8	7207.1	7130.4	6905.9	6795.7	6875.2	7758.0	9236.2	9135.8	6892.0
52.5°	6809.7	6801.3	7003.5	7162.5	7222.5	7003.5	7017.5	7833.3	9328.3	9241.8	6936.6
55°	5734.5	5720.5	6005.0	6391.3	6919.9	7200.2	7189.0	7877.9	9430.1	9377.1	7098.4
57.5°	4157.2	4133.5	4529.6	4959.1	5652.2	6412.2	6858.5	7852.8	9474.7	9470.5	7286.6
60°	2499.1	2479.5	2853.3	3305.1	3840.6	4604.9	5345.4	7034.2	8877.8	8886.2	6797.1
62.5°	1538.2	1556.3	1893.8	2123.9	2323.4	2553.5	2981.6	4731.8	6576.8	6631.2	4776.4
65°	1034.8	1048.7	1361.1	1651.2	1651.2	1349.9	1158.9	2262.0	3508.7	3416.7	2259.2
67.5°	694.5	709.8	956.7	1295.6	1344.4	941.3	470.0	675.0	977.6	948.3	559.2
70°	408.6	425.3	637.3	888.3	979.0	655.4	313.8	285.9	277.5	269.2	217.6
72.5°	182.7	189.7	324.9	451.8	412.8	276.1	221.7	228.7	216.2	212.0	177.1
75°	55.8	58.6	83.7	97.6	99.0	99.0	133.9	179.9	170.1	171.5	136.7
77.5°	13.9	13.9	22.3	20.9	11.2	9.8	25.1	40.4	41.8	37.7	27.9
80°	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3
2.5°	1953.8	1917.5	1893.8	1860.4	1836.6	1811.5	1789.2	1771.1	1761.3	1758.6	1759.9
5°	1998.4	1941.2	1885.5	1821.3	1776.7	1734.8	1701.4	1674.9	1662.3	1658.1	1658.1
7.5°	2066.8	1987.3	1888.2	1787.8	1712.5	1647.0	1607.9	1578.7	1567.5	1564.7	1556.3
10°	2156.0	2047.2	1884.1	1727.9	1621.9	1553.6	1525.7	1517.3	1521.5	1522.9	1521.5
12.5°	2263.4	2110.0	1857.6	1640.0	1525.7	1483.8	1486.6	1508.9	1534.0	1546.6	1549.4
15°	2377.7	2167.2	1797.6	1535.4	1443.4	1442.0	1482.4	1534.0	1582.8	1603.8	1609.3
17.5°	2506.0	2213.2	1705.6	1423.9	1372.3	1412.7	1485.2	1564.7	1630.3	1665.1	1672.1
20°	2646.9	2250.8	1588.4	1319.3	1309.5	1382.0	1482.4	1580.0	1660.9	1700.0	1707.0
22.5°	2793.3	2277.3	1453.1	1223.0	1252.3	1347.2	1455.9	1550.8	1627.5	1672.1	1677.7
25°	2960.7	2280.1	1315.1	1142.2	1199.3	1299.7	1391.8	1469.9	1534.0	1573.1	1577.3
27.5°	3107.1	2246.7	1192.4	1076.6	1150.5	1241.2	1302.5	1345.8	1390.4	1412.7	1414.1
30°	3275.8	2188.1	1076.6	1023.6	1100.3	1168.7	1199.3	1209.1	1213.3	1217.5	1211.9
32.5°	3476.7	2117.0	990.1	972.0	1043.1	1089.2	1097.5	1078.0	1054.3	1020.8	1012.5
35°	3723.5	2052.8	919.0	921.8	980.4	1008.3	1001.3	959.5	913.4	873.0	866.0
37.5°	3991.3	1998.4	864.6	873.0	912.0	931.6	910.7	864.6	843.7	808.9	810.2
40°	4228.3	1953.8	815.8	824.2	842.3	860.5	827.0	796.3	835.3	832.6	835.3
42.5°	4397.1	1916.1	774.0	769.8	782.4	794.9	769.8	754.5	820.0	801.9	811.6
45°	4496.1	1881.3	739.1	714.0	733.5	755.9	739.1	719.6	741.9	658.2	651.3
47.5°	4563.0	1861.8	708.4	659.6	694.5	733.5	698.7	651.3	619.2	546.7	541.1
50°	4570.0	1852.0	672.2	603.8	648.5	690.3	649.9	584.3	538.3	506.2	502.0
52.5°	4606.3	1871.5	622.0	532.7	581.5	648.5	620.6	555.0	492.3	464.4	458.8
55°	4768.0	1953.8	538.3	435.1	506.2	616.4	596.9	495.1	435.1	418.4	414.2
57.5°	4935.4	1970.5	423.9	344.5	440.7	570.4	545.3	456.0	397.5	377.9	373.7
60°	4512.8	1623.3	318.0	284.5	389.1	527.1	504.8	432.3	364.0	340.3	336.1
62.5°	2964.9	877.2	252.4	241.3	327.7	446.3	460.2	390.5	324.9	299.8	298.4
65°	1366.7	407.2	193.8	191.1	256.6	355.6	396.1	341.7	274.7	252.4	252.4
67.5°	372.4	202.2	152.0	140.9	174.3	238.5	288.7	255.2	195.2	168.7	167.3
70°	185.5	163.2	136.7	121.3	125.5	147.8	170.1	142.2	99.0	80.9	79.5
72.5°	152.0	133.9	115.7	103.2	94.8	90.6	87.9	71.1	46.0	34.9	33.5
75°	113.0	96.2	82.3	66.9	57.2	53.0	47.4	34.9	19.5	11.2	9.8
77.5°	25.1	23.7	22.3	16.7	15.3	12.6	9.8	7.0	2.8	0.0	0.0
80°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)