

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: P640497

Luminaire Tested: GWS-SA5E-722-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-722-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20826.2 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

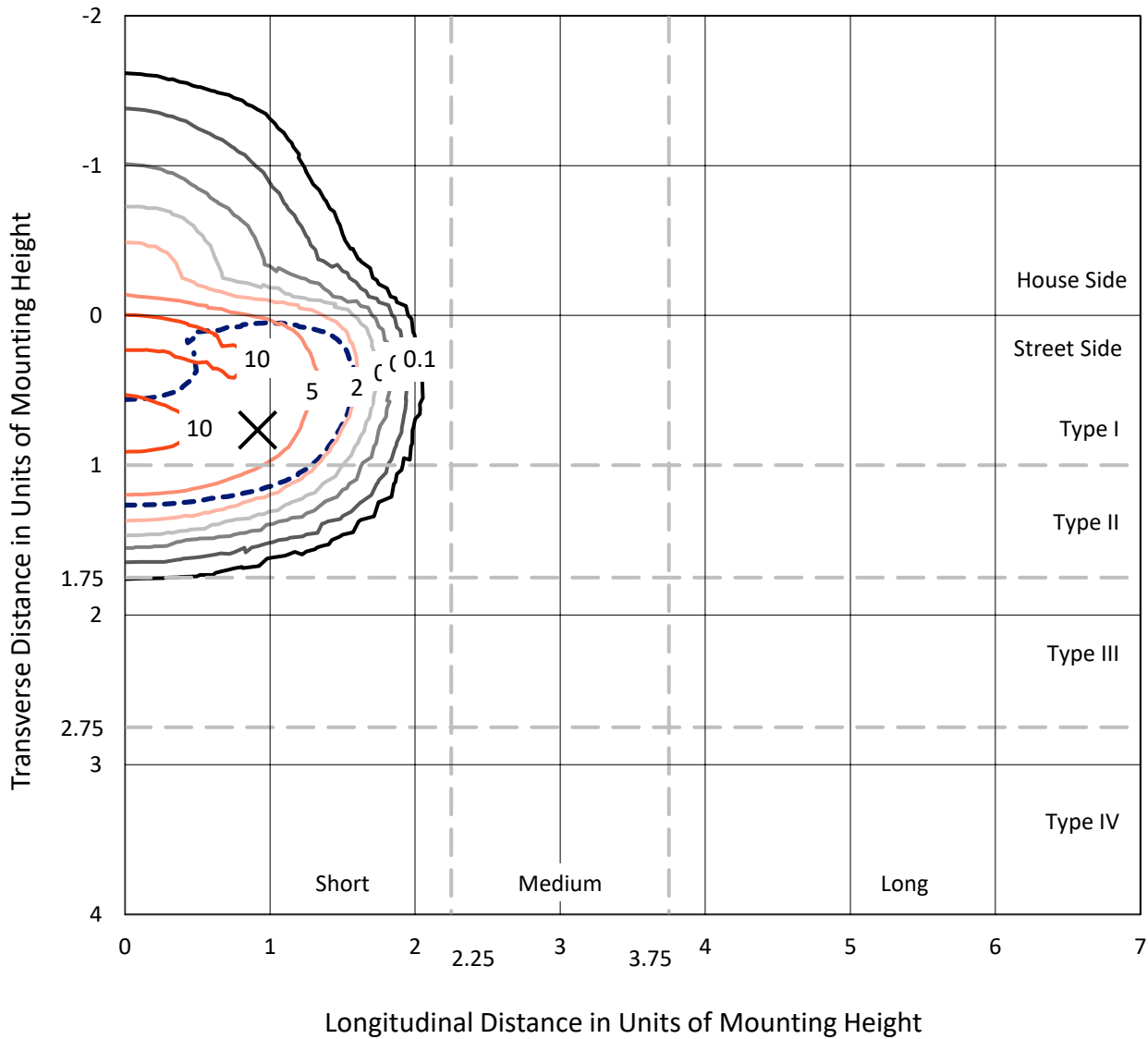
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

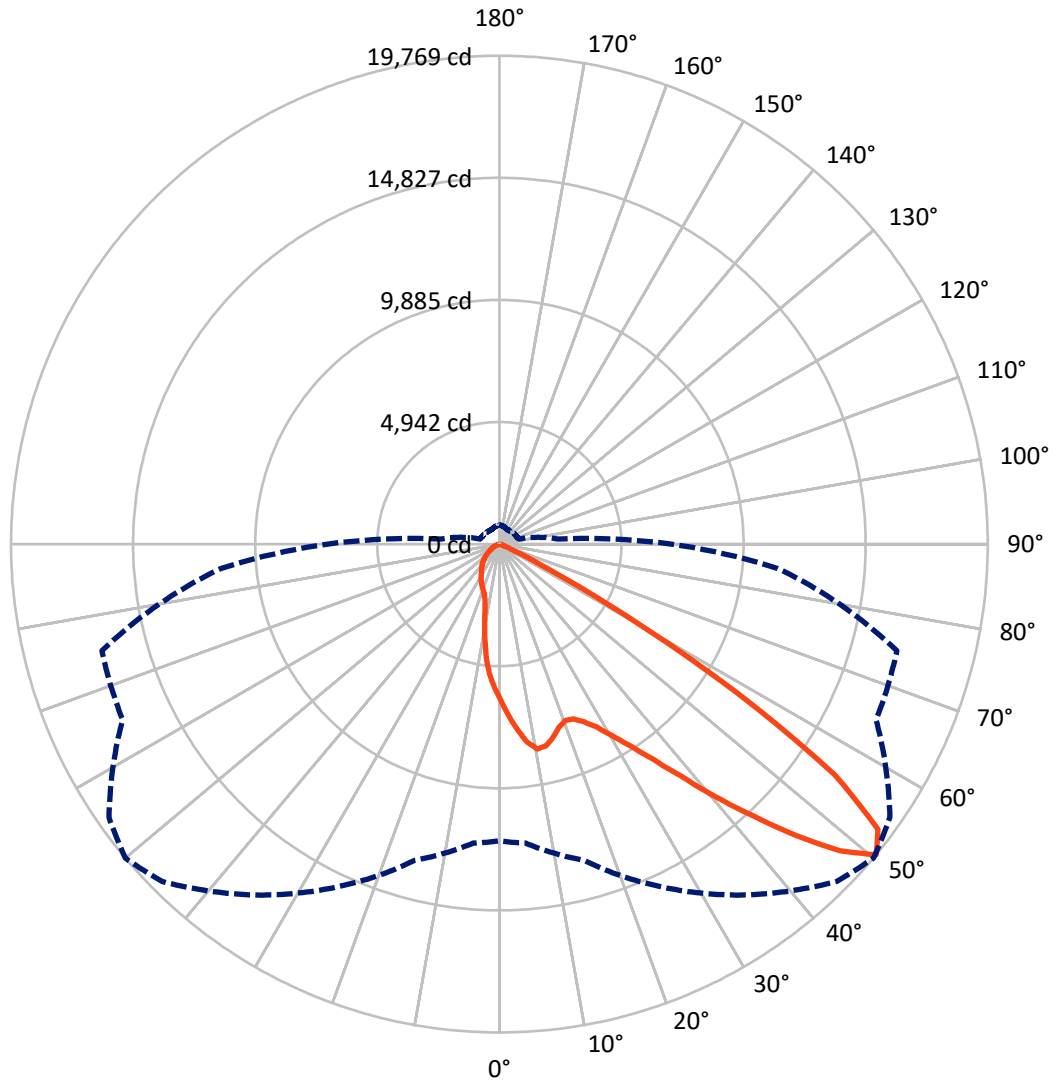
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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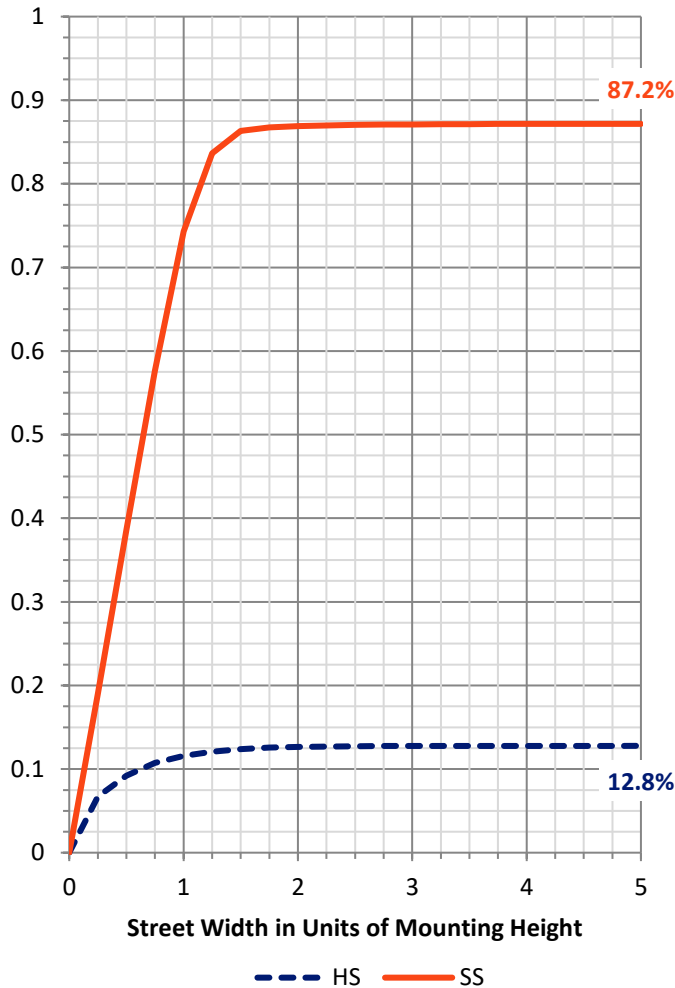
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2675.8	0.0	2675.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	18150.3	0.0	18150.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	20826.2	0.0	20826.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.3	2.8
10°-20°	1510.1	7.3
20°-30°	2492.3	12.0
30°-40°	4112.7	19.7
40°-50°	6507.3	31.2
50°-60°	4926.8	23.7
60°-70°	616.6	3.0
70°-80°	69.8	0.3
80°-90°	5.3	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°	20826.2	100.0
0°-180°	20826.2	100.0

Coefficient of Utilization



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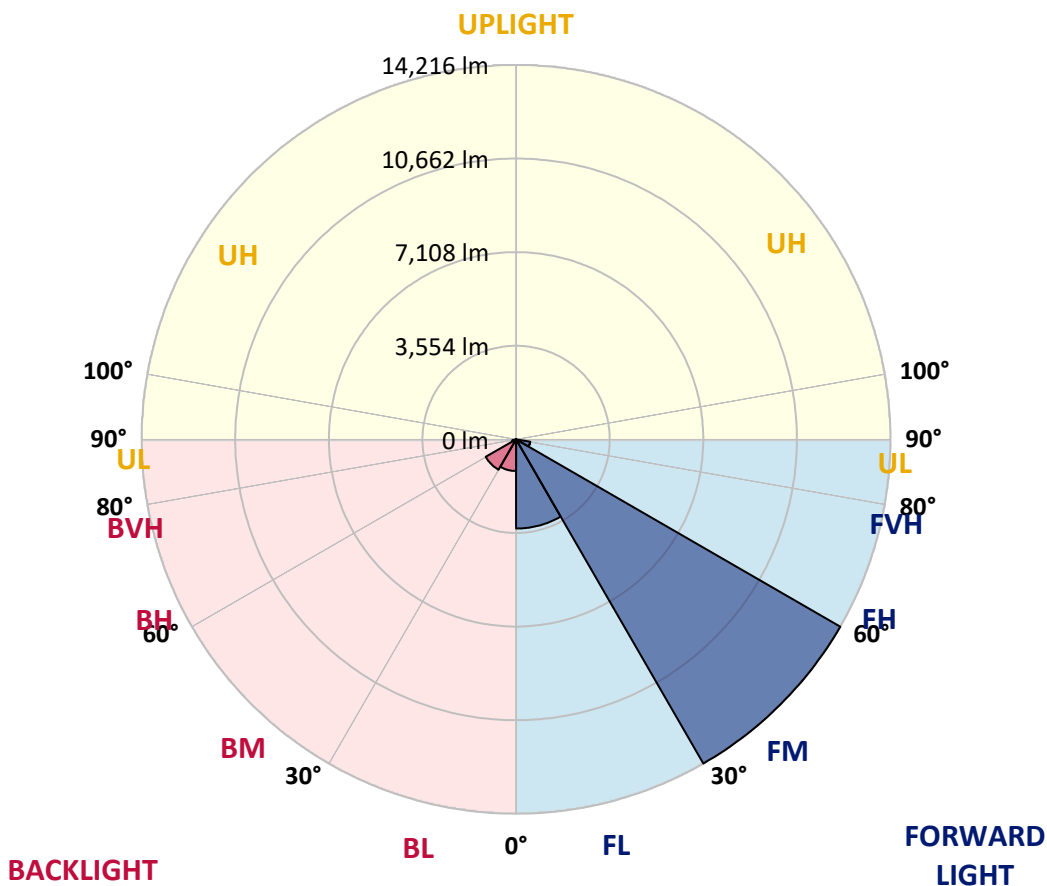
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3386.6	16.3			
FM (30°-60°)	14216.1	68.3			
FH (60°-80°)	545.2	2.6			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	1201.0	5.8	B3/2500		
BM (30°-60°)	1330.8	6.4	B2/2500		
BH (60°-80°)	141.2	0.7	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	6309.5	6309.5	6309.5	6309.5	6309.5	6309.5	6309.5	6309.5	6309.5	6309.5	6309.5
2.5°	7189.6	7247.1	7231.3	7155.9	7074.7	7017.2	6928.0	6900.2	6698.0	6557.3	6408.6
5°	8057.9	8075.7	8055.9	7964.7	7822.0	7685.2	7538.5	7453.3	7114.3	6809.0	6497.8
7.5°	8266.0	8244.2	8281.9	8327.4	8307.6	8248.2	8093.5	8000.4	7596.0	7098.4	6626.7
10°	7615.8	7566.3	7707.0	7942.9	8190.7	8470.2	8430.5	8438.5	8065.8	7463.2	6795.2
12.5°	6753.5	6733.7	6838.8	7112.3	7598.0	8232.3	8384.9	8640.6	8495.9	7857.7	6987.4
15°	6374.9	6384.8	6448.3	6620.7	6969.6	7758.5	8125.3	8587.1	8880.5	8240.2	7199.5
17.5°	6432.4	6468.1	6466.1	6523.6	6735.7	7368.0	7796.2	8418.6	9177.8	8680.3	7443.4
20°	6822.9	6858.6	6805.1	6761.5	6832.8	7268.9	7623.7	8248.2	9378.0	9124.3	7701.1
22.5°	7407.7	7449.3	7322.4	7197.6	7152.0	7431.5	7689.2	8178.8	9530.7	9530.7	7931.0
25°	8115.3	8172.8	7976.6	7754.6	7627.7	7774.4	7968.7	8335.4	9687.3	9895.4	8087.6
27.5°	8906.3	8908.2	8739.8	8490.0	8252.1	8270.0	8386.9	8688.2	9859.7	10287.9	8210.5
30°	9796.3	9802.2	9578.2	9278.9	8979.6	8898.3	8997.4	9225.4	10218.5	10781.5	8381.0
32.5°	10946.0	10973.8	10652.6	10212.6	9824.0	9671.4	9728.9	9968.7	10789.4	11399.9	8636.7
35°	12500.1	12529.8	12056.1	11475.3	10856.8	10626.9	10684.3	10926.2	11616.0	12278.1	9045.0
37.5°	14034.3	14074.0	13594.3	13053.1	12204.7	11824.1	11883.6	12113.5	12856.9	13491.2	9699.2
40°	15094.9	15148.4	14999.7	14635.0	13848.0	13348.5	13419.9	13503.1	14222.7	14942.2	10547.6
42.5°	15653.9	15729.2	15792.6	15978.9	15564.6	15146.4	15025.5	15031.4	15612.2	16421.0	11429.7
45°	15687.5	15760.9	16086.0	16805.5	17120.7	17033.5	16813.5	16664.8	16672.7	17406.2	11980.7
47.5°	14597.3	14734.1	15342.6	16752.0	17937.4	18660.9	18549.9	18197.1	17118.7	17471.6	11921.3
50°	12014.4	12149.2	13255.3	15283.2	17342.7	19311.1	19769.0	19295.2	16827.3	16656.9	11308.8
52.5°	8725.9	8739.8	9457.3	11826.1	14932.3	18111.8	19190.2	19144.6	16383.3	15669.7	10472.2
55°	4144.9	4095.3	4902.1	6674.2	10327.5	14648.8	16466.6	16982.0	15753.0	14956.1	9824.0
57.5°	1207.2	1231.0	1589.8	2604.7	5165.8	9362.2	11277.0	12236.4	12930.2	12295.9	7619.8
60°	541.2	543.1	604.6	792.9	1720.6	4355.0	5829.8	7017.2	7730.8	7163.9	3780.2
62.5°	392.5	394.5	418.3	448.0	584.8	1474.8	2186.4	2913.9	2967.4	1942.6	957.4
65°	327.1	327.1	331.0	331.0	350.9	527.3	664.1	856.3	721.5	535.2	374.6
67.5°	263.6	265.6	269.6	269.6	263.6	263.6	285.4	313.2	335.0	414.3	344.9
70°	206.2	204.2	204.2	206.2	200.2	170.5	184.3	210.1	229.9	323.1	299.3
72.5°	160.6	162.5	160.6	152.6	138.8	101.1	109.0	136.8	146.7	202.2	202.2
75°	120.9	122.9	115.0	87.2	57.5	31.7	41.6	67.4	85.2	99.1	73.3
77.5°	15.9	15.9	11.9	11.9	9.9	11.9	11.9	15.9	23.8	23.8	17.8
80°	2.0	2.0	2.0	4.0	5.9	7.9	7.9	7.9	7.9	9.9	9.9
82.5°	2.0	2.0	2.0	2.0	5.9	5.9	7.9	7.9	7.9	7.9	7.9
85°	0.0	0.0	0.0	2.0	4.0	5.9	5.9	7.9	7.9	7.9	7.9
87.5°	0.0	0.0	0.0	2.0	4.0	5.9	5.9	5.9	7.9	7.9	7.9
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°	6309.5	6309.5	6309.5	6309.5	6309.5	6309.5	6309.5	6309.5	6309.5	6309.5	6309.5
2.5°	6319.4	6204.5	6065.7	5970.5	5835.8	5746.6	5619.7	5534.4	5461.1	5403.6	5435.3
5°	6321.4	6139.0	5855.6	5613.7	5350.1	5108.3	4848.6	4644.4	4460.1	4376.8	4422.4
7.5°	6361.0	6099.4	5665.3	5235.1	4729.7	4230.1	3762.3	3381.7	3193.4	3104.2	3132.0
10°	6438.4	6081.6	5453.2	4739.6	3918.9	3237.0	2783.1	2525.4	2420.3	2364.8	2374.7
12.5°	6509.7	6069.7	5177.6	4087.4	3092.3	2511.5	2275.6	2239.9	2261.8	2263.7	2261.8
15°	6606.8	6047.9	4836.7	3417.4	2473.9	2170.6	2176.5	2228.1	2279.6	2295.4	2291.5
17.5°	6709.9	6014.2	4396.6	2775.2	2099.2	2071.5	2140.8	2210.2	2261.8	2269.7	2271.7
20°	6817.0	5944.8	3895.1	2265.7	1924.8	1996.1	2073.4	2125.0	2162.6	2174.5	2178.5
22.5°	6866.5	5798.1	3316.3	1901.0	1807.8	1903.0	1960.4	2027.8	2039.7	1996.1	2004.1
25°	6840.8	5550.3	2751.4	1655.2	1690.9	1786.0	1871.2	1837.5	1788.0	1756.3	1766.2
27.5°	6759.5	5221.3	2198.3	1474.8	1566.0	1686.9	1696.8	1659.1	1651.2	1625.4	1633.4
30°	6672.3	4842.6	1768.2	1330.1	1439.1	1566.0	1536.2	1550.1	1552.1	1522.4	1532.3
32.5°	6618.7	4446.2	1407.4	1233.0	1357.8	1381.6	1441.1	1468.8	1470.8	1401.5	1413.3
35°	6636.6	4055.7	1191.3	1153.7	1282.5	1276.6	1359.8	1375.7	1260.7	1165.6	1175.5
37.5°	6781.3	3694.9	1068.4	1092.2	1151.7	1197.3	1260.7	1155.7	1129.9	1086.3	1092.2
40°	7050.9	3387.7	995.1	1054.6	1062.5	1135.8	1038.7	1052.6	1054.6	1026.8	1032.8
42.5°	7366.1	3132.0	951.5	1032.8	1012.9	1024.8	927.7	955.4	985.2	973.3	975.3
45°	7524.6	2882.2	913.8	957.4	963.4	850.4	828.6	858.3	896.0	901.9	903.9
47.5°	7383.9	2644.3	874.2	848.4	888.0	775.1	749.3	759.2	802.8	826.6	830.6
50°	6953.7	2370.8	814.7	751.3	729.5	695.8	672.0	674.0	723.5	765.1	773.1
52.5°	6349.2	2085.3	717.6	636.3	586.7	612.5	618.5	606.6	652.2	693.8	701.7
55°	5762.4	1728.5	568.9	517.4	471.8	527.3	543.1	527.3	541.2	568.9	570.9
57.5°	4057.7	977.3	436.1	428.2	390.5	452.0	477.7	453.9	430.1	448.0	452.0
60°	1881.2	511.4	335.0	335.0	325.1	388.5	432.1	398.4	352.8	360.8	366.7
62.5°	588.7	323.1	245.8	231.9	265.6	331.0	366.7	333.0	279.5	279.5	287.4
65°	333.0	277.5	194.3	178.4	216.1	265.6	287.4	251.7	204.2	200.2	200.2
67.5°	309.2	263.6	172.5	144.7	152.6	170.5	178.4	154.6	140.7	138.8	140.7
70°	255.7	220.0	138.8	99.1	93.2	91.2	95.1	89.2	85.2	87.2	93.2
72.5°	158.6	132.8	87.2	59.5	51.5	49.6	49.6	49.6	47.6	47.6	47.6
75°	57.5	49.6	39.6	29.7	25.8	23.8	23.8	25.8	23.8	21.8	19.8
77.5°	17.8	15.9	15.9	15.9	13.9	11.9	9.9	9.9	7.9	5.9	5.9
80°	9.9	9.9	9.9	9.9	7.9	7.9	5.9	4.0	2.0	2.0	0.0
82.5°	9.9	9.9	9.9	7.9	7.9	7.9	5.9	4.0	2.0	0.0	0.0
85°	7.9	7.9	7.9	7.9	7.9	7.9	5.9	4.0	2.0	0.0	0.0
87.5°	7.9	7.9	7.9	7.9	7.9	7.9	5.9	4.0	2.0	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)