

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: P635742

Luminaire Tested: GWS-SA3E-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-735-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14539.9 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

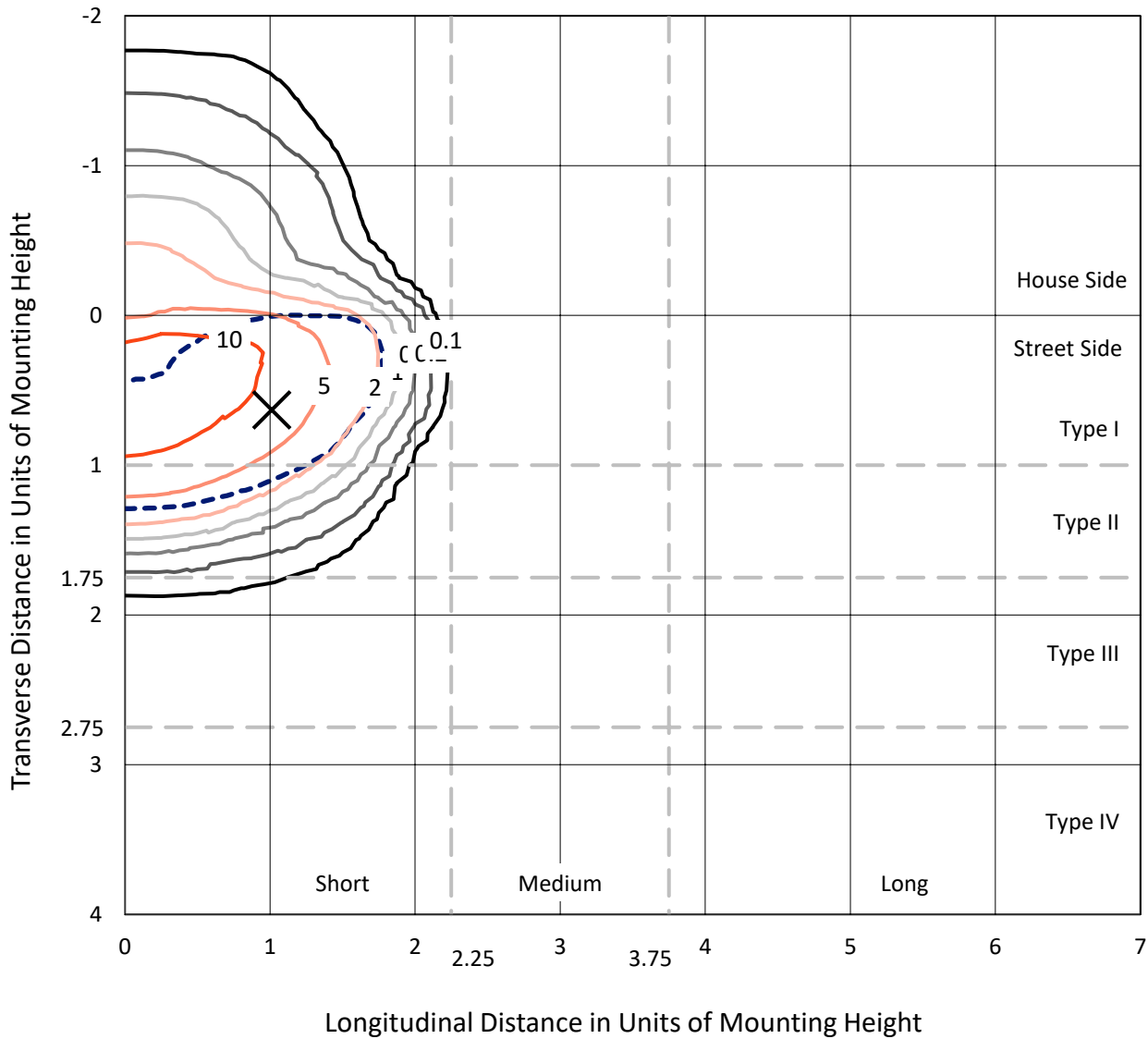
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

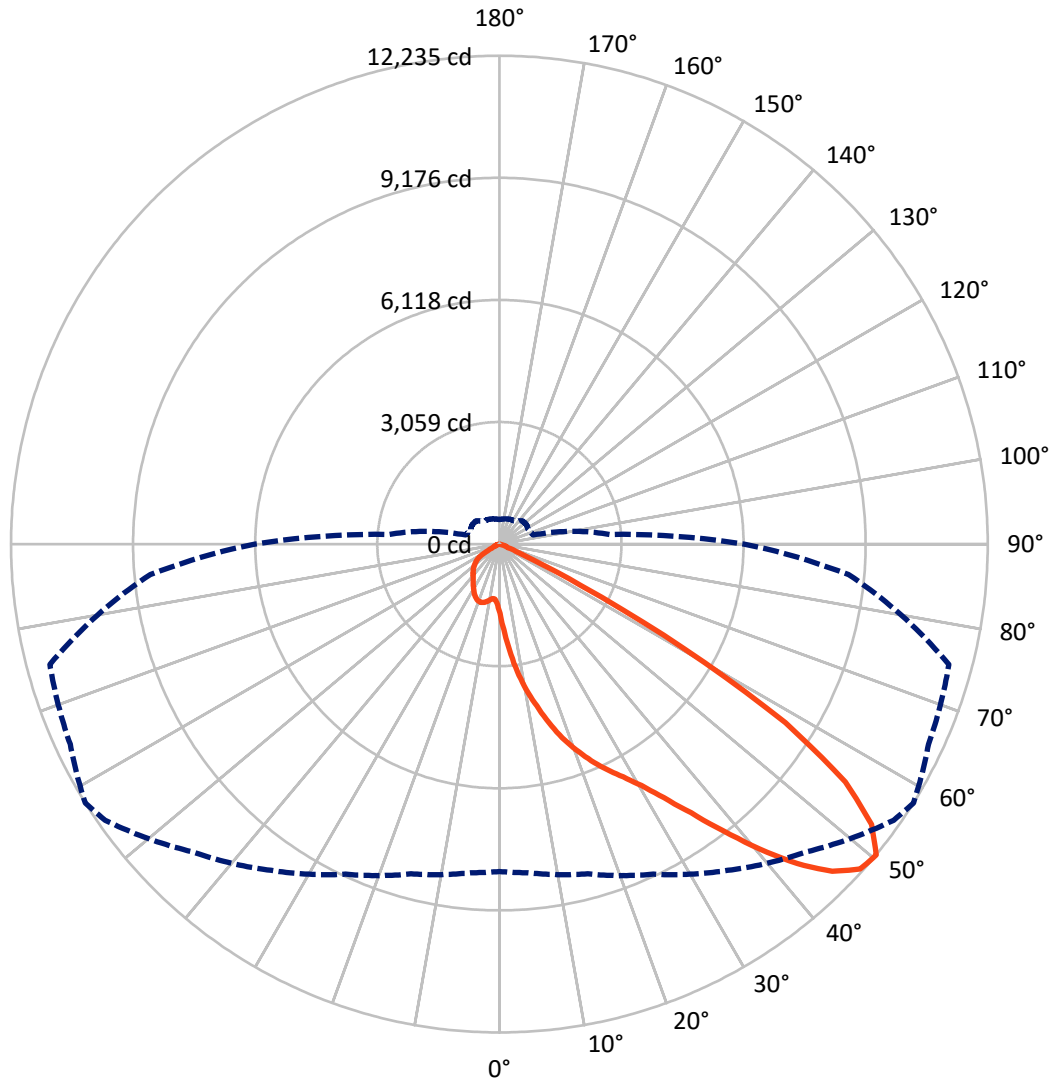
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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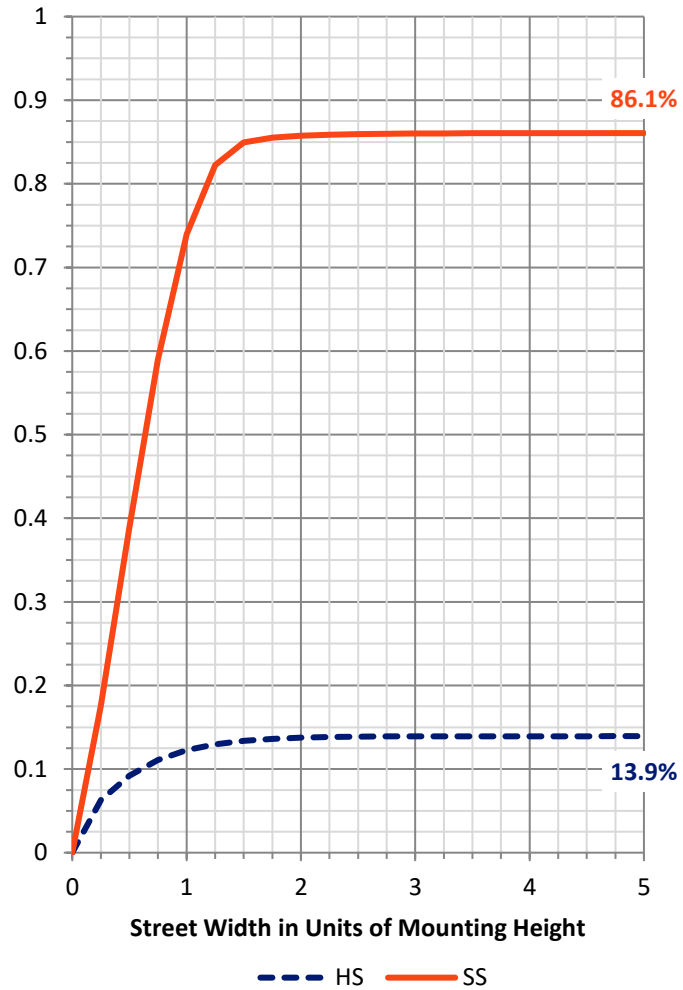
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2036.5	0.0	2036.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12503.4	0.0	12503.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	14539.9	0.0	14539.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.2	1.5
10°-20°	851.8	5.9
20°-30°	1723.5	11.9
30°-40°	3049.2	21.0
40°-50°	4445.0	30.6
50°-60°	3562.8	24.5
60°-70°	641.9	4.4
70°-80°	50.6	0.3
80°-90°	0.0	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°	14539.9	100.0
0°-180°	14539.9	100.0

Coefficient of Utilization



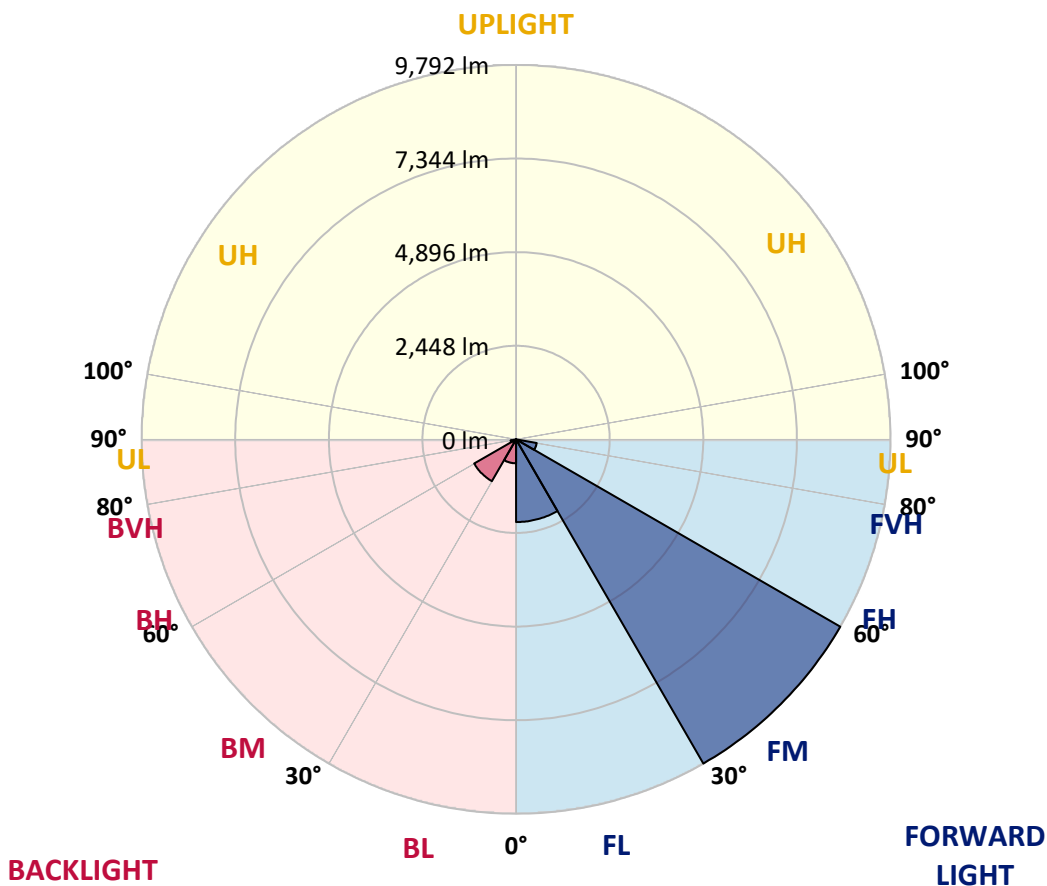
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2163.5	14.9			
FM (30°-60°)	9792.2	67.3			
FH (60°-80°)	547.7	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	627.0	4.3	B2/1000		
BM (30°-60°)	1264.8	8.7	B2/2500		
BH (60°-80°)	144.7	1.0	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°	58°	65°	75°	85°
0°	1736.8	1736.8	1736.8	1736.8	1736.8	1736.8	1736.8	1736.8	1736.8	1736.8	1736.8
2.5°	2570.2	2529.7	2506.4	2487.8	2405.4	2274.7	2189.2	2144.1	2069.5	1943.6	1834.7
5°	3353.8	3324.3	3269.8	3232.5	3126.8	2941.8	2750.5	2674.3	2504.9	2220.3	1965.3
7.5°	3873.1	3851.4	3831.1	3781.4	3681.9	3514.0	3302.5	3223.2	2962.0	2557.7	2139.5
10°	4272.7	4255.6	4232.3	4230.7	4153.0	4002.2	3795.4	3713.0	3430.0	2924.7	2344.7
12.5°	4624.1	4610.1	4605.5	4649.0	4599.2	4487.3	4263.4	4160.8	3860.7	3299.4	2571.7
15°	4865.1	4862.0	4882.2	4967.7	4995.7	4944.4	4756.3	4645.9	4300.7	3675.7	2822.1
17.5°	4975.5	4984.8	5023.7	5171.4	5295.8	5339.4	5194.7	5101.5	4737.6	4056.6	3089.5
20°	5163.7	5160.5	5183.9	5323.8	5476.2	5631.7	5588.1	5508.8	5179.2	4459.3	3386.5
22.5°	5693.9	5648.8	5599.0	5620.8	5675.2	5857.1	5938.0	5897.5	5634.8	4872.9	3692.8
25°	6508.6	6462.0	6301.8	6146.3	6043.7	6126.1	6236.5	6256.7	6087.2	5297.4	4013.1
27.5°	7373.1	7331.1	7150.7	6917.5	6623.7	6480.6	6563.0	6603.4	6531.9	5802.7	4353.6
30°	8183.2	8127.2	7929.7	7640.5	7300.0	7080.8	6987.5	7015.5	7057.5	6401.3	4753.2
32.5°	8886.0	8844.0	8607.6	8302.9	7974.8	7746.3	7528.6	7575.2	7677.8	7133.6	5264.7
35°	9481.5	9459.7	9209.4	8906.2	8559.4	8442.8	8256.2	8265.6	8368.2	8018.4	5888.2
37.5°	9999.2	9961.9	9734.9	9453.5	9178.3	9159.6	9108.3	9113.0	9165.8	9049.2	6605.0
40°	10325.8	10291.5	10129.8	9955.7	9759.8	9762.9	10028.8	10049.0	9988.3	10061.4	7362.2
42.5°	10448.6	10423.7	10336.6	10338.2	10318.0	10409.7	10908.8	10946.1	10728.5	10856.0	8009.0
45°	10235.6	10224.7	10230.9	10454.8	10697.4	10980.3	11628.7	11694.0	11386.2	11383.0	8514.4
47.5°	9548.3	9526.6	9708.5	10089.4	10650.7	11201.1	12064.1	12165.1	11846.4	11684.7	8831.5
50°	8201.8	8264.0	8551.7	9123.9	9977.5	10897.9	12059.4	12235.1	11863.5	11658.3	8778.7
52.5°	5941.1	5928.6	6558.4	7345.1	8383.7	9927.7	11418.8	11675.4	11448.4	11398.6	8660.5
55°	3232.5	3346.0	3770.5	4812.3	6109.0	8091.4	9955.7	10515.4	10778.2	11303.8	8873.5
57.5°	1187.9	1237.7	1503.5	2240.5	3234.1	5031.5	7604.8	8449.0	9260.7	11039.4	8837.8
60°	478.9	488.2	594.0	824.1	1358.9	2560.8	4561.9	5311.4	6076.3	8450.6	6782.3
62.5°	348.3	360.7	402.7	482.0	687.2	1119.5	1966.9	2287.2	2500.2	4185.7	3341.4
65°	281.4	290.8	325.0	360.7	454.0	601.7	634.4	611.1	607.9	1082.2	766.5
67.5°	233.2	242.6	267.4	292.3	326.5	300.1	217.7	228.6	186.6	185.0	150.8
70°	171.0	181.9	206.8	233.2	195.9	80.9	125.9	186.6	141.5	118.2	115.1
72.5°	129.1	136.8	160.1	152.4	57.5	31.1	84.0	135.3	108.8	87.1	85.5
75°	96.4	101.1	80.9	24.9	6.2	7.8	31.1	56.0	60.6	49.8	49.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	4.7	6.2	7.8	9.3
80°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1736.8	1736.8	1736.8	1736.8	1736.8	1736.8	1736.8	1736.8	1736.8	1736.8	1736.8
2.5°	1772.5	1707.2	1613.9	1536.2	1477.1	1419.6	1376.0	1332.5	1331.0	1309.2	1304.5
5°	1847.2	1729.0	1558.0	1435.1	1360.5	1315.4	1284.3	1268.8	1261.0	1253.2	1250.1
7.5°	1954.4	1785.0	1548.6	1418.0	1355.8	1326.3	1304.5	1295.2	1290.5	1284.3	1282.8
10°	2086.6	1865.8	1582.8	1450.7	1396.3	1368.3	1344.9	1331.0	1323.2	1312.3	1309.2
12.5°	2245.2	1965.3	1637.3	1505.1	1447.6	1410.2	1379.2	1358.9	1348.1	1334.1	1331.0
15°	2416.2	2072.6	1697.9	1554.8	1486.4	1438.2	1399.4	1368.3	1348.1	1331.0	1326.3
17.5°	2593.5	2181.5	1752.3	1589.1	1505.1	1447.6	1391.6	1349.6	1324.7	1303.0	1296.7
20°	2792.5	2293.4	1788.1	1595.3	1498.9	1422.7	1357.4	1304.5	1279.6	1250.1	1243.9
22.5°	3000.9	2397.6	1803.6	1581.3	1464.7	1376.0	1306.1	1251.7	1215.9	1184.8	1175.5
25°	3203.0	2490.9	1795.9	1542.4	1413.4	1310.7	1239.2	1183.2	1144.4	1113.3	1105.5
27.5°	3417.6	2568.6	1767.9	1484.9	1343.4	1239.2	1170.8	1122.6	1086.8	1052.6	1044.9
30°	3658.6	2640.1	1722.8	1414.9	1261.0	1166.1	1113.3	1080.6	1041.7	1006.0	995.1
32.5°	3949.3	2703.9	1657.5	1331.0	1187.9	1102.4	1072.8	1048.0	1002.9	965.6	957.8
35°	4282.1	2756.7	1575.1	1243.9	1116.4	1062.0	1055.7	1023.1	964.0	920.5	911.1
37.5°	4667.7	2808.1	1477.1	1158.4	1063.5	1043.3	1044.9	988.9	917.4	864.5	858.3
40°	5082.8	2859.4	1368.3	1083.7	1015.3	1032.4	1018.4	939.1	822.5	771.2	765.0
42.5°	5515.0	2915.3	1257.9	1013.8	974.9	990.4	970.2	839.6	755.7	729.2	726.1
45°	5905.3	2982.2	1138.1	943.8	934.5	929.8	895.6	760.3	724.6	705.9	704.3
47.5°	6186.7	2971.3	1010.7	876.9	890.9	875.4	771.2	723.0	693.5	668.6	662.4
50°	6135.4	2781.6	878.5	802.3	835.0	821.0	693.5	679.5	653.0	626.6	617.3
52.5°	6004.8	2523.5	763.4	723.0	774.3	741.7	640.6	626.6	603.3	569.1	558.2
55°	6074.8	2281.0	673.2	659.3	712.1	614.2	581.5	559.7	534.9	497.6	492.9
57.5°	5849.3	1861.2	541.1	550.4	629.7	524.0	510.0	475.8	433.8	408.9	405.8
60°	4048.8	999.8	339.0	349.8	455.6	440.0	457.1	426.0	374.7	351.4	346.7
62.5°	1859.6	401.2	185.0	177.3	239.4	298.5	391.8	388.7	325.0	287.6	284.5
65°	450.9	183.5	132.2	124.4	135.3	178.8	255.0	306.3	262.8	219.2	214.6
67.5°	146.2	149.3	121.3	113.5	119.7	133.7	152.4	169.5	167.9	153.9	150.8
70°	116.6	135.3	111.9	102.6	102.6	107.3	102.6	82.4	71.5	77.7	80.9
72.5°	87.1	102.6	88.6	79.3	76.2	74.6	63.7	46.6	32.7	29.5	28.0
75°	51.3	57.5	54.4	46.6	43.5	38.9	31.1	20.2	10.9	7.8	4.7
77.5°	9.3	10.9	12.4	9.3	7.8	6.2	4.7	1.6	0.0	0.0	0.0
80°	0.0	1.6	1.6	1.6	0.0	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)