

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: P637777

Luminaire Tested: GWS-SA4D-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637777
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-SA4D-740-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16416.1 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

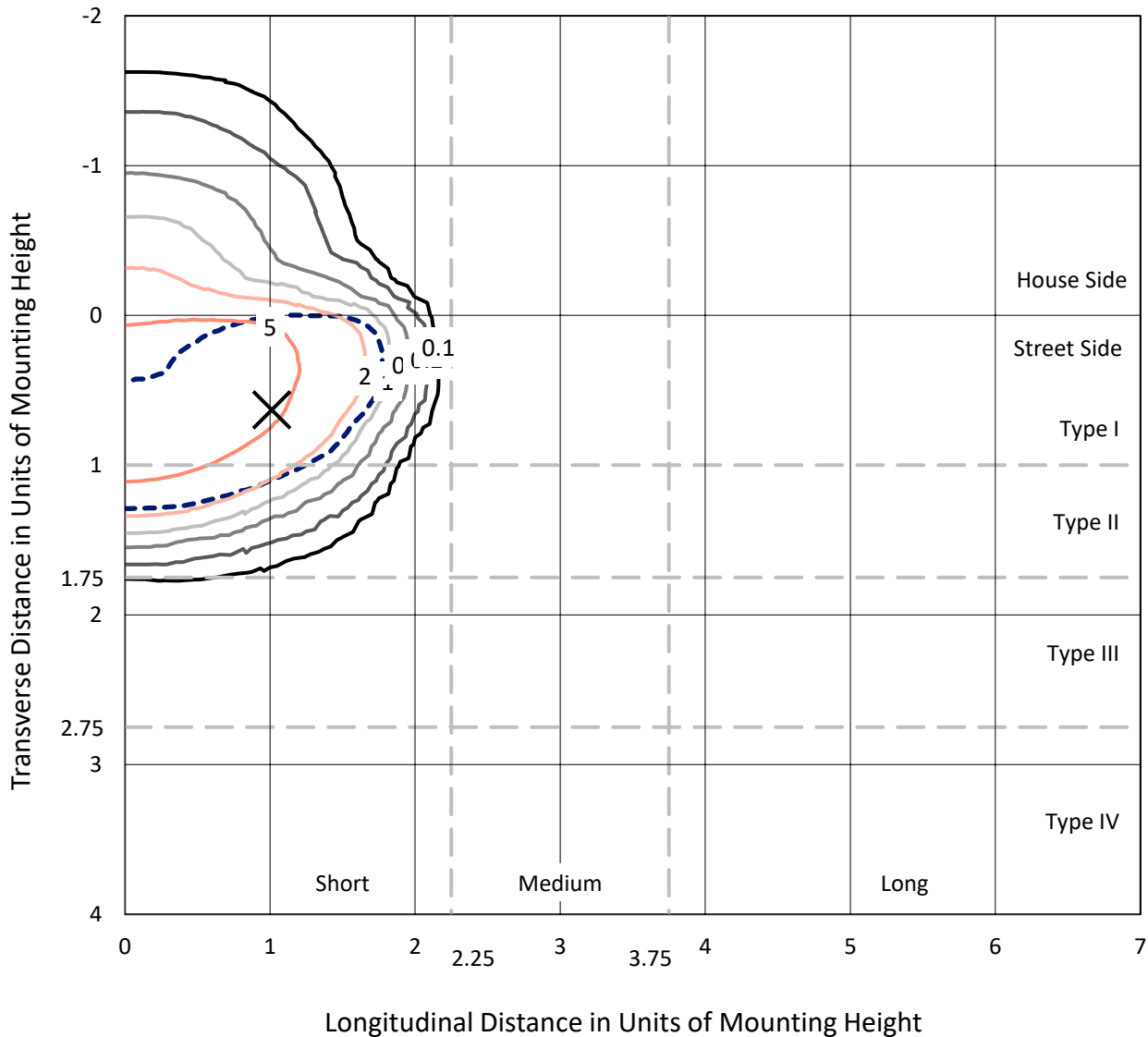
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

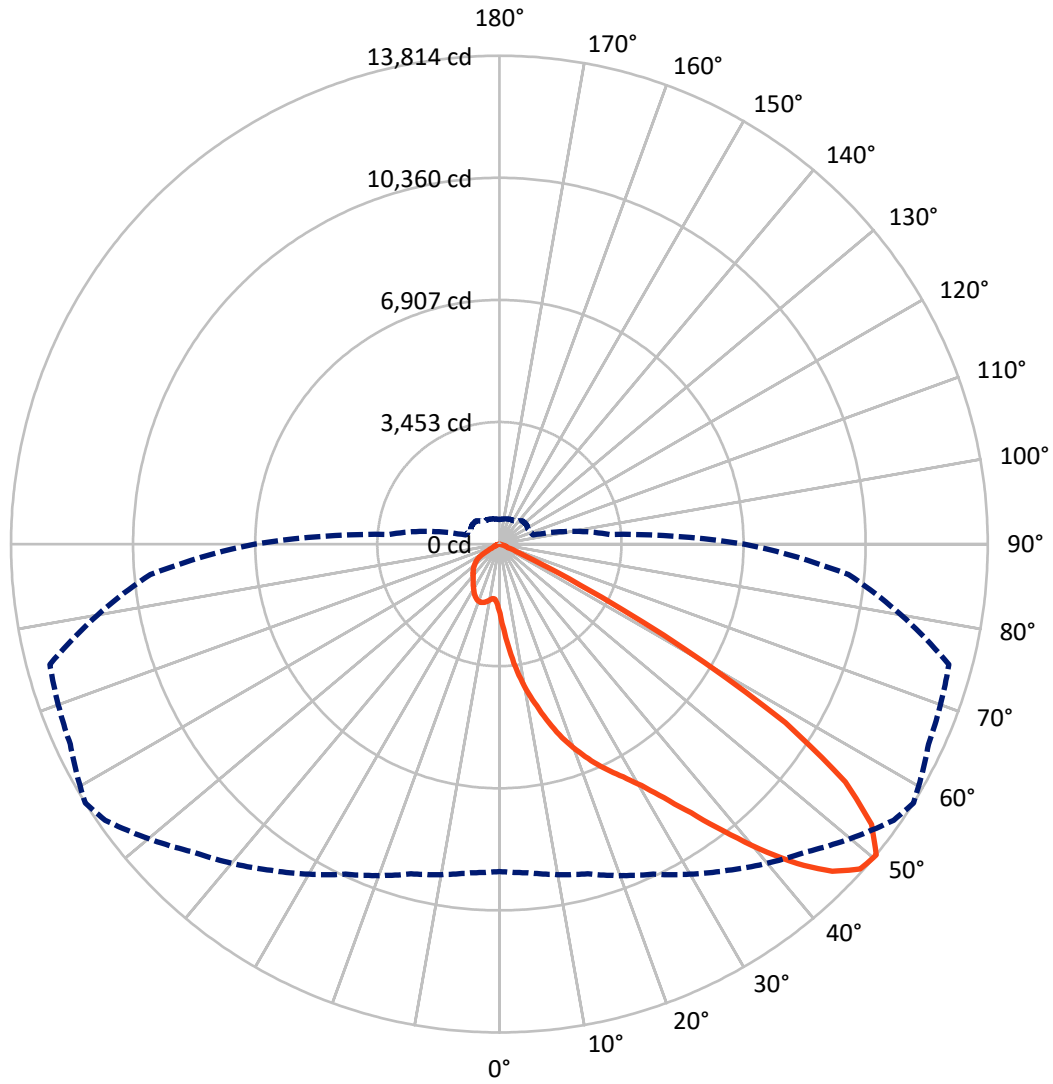
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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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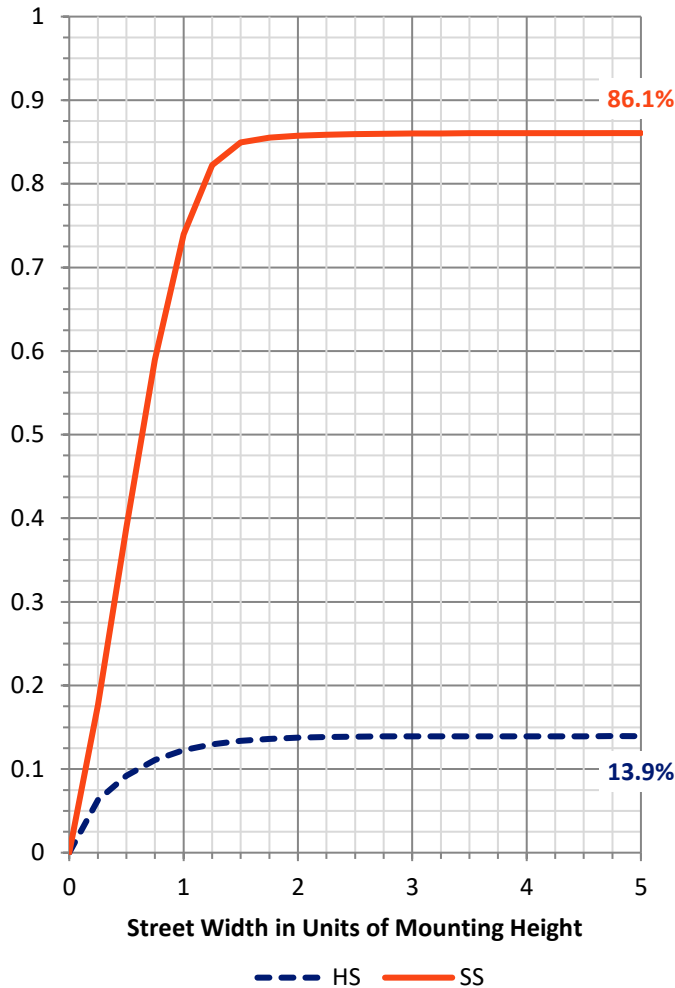
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2299.3	0.0	2299.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	14116.8	0.0	14116.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	16416.1	0.0	16416.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.9	1.5
10°-20°	961.7	5.9
20°-30°	1946.0	11.9
30°-40°	3442.6	21.0
40°-50°	5018.6	30.6
50°-60°	4022.5	24.5
60°-70°	724.7	4.4
70°-80°	57.1	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°	16416.1	100.0
0°-180°	16416.1	100.0

Coefficient of Utilization



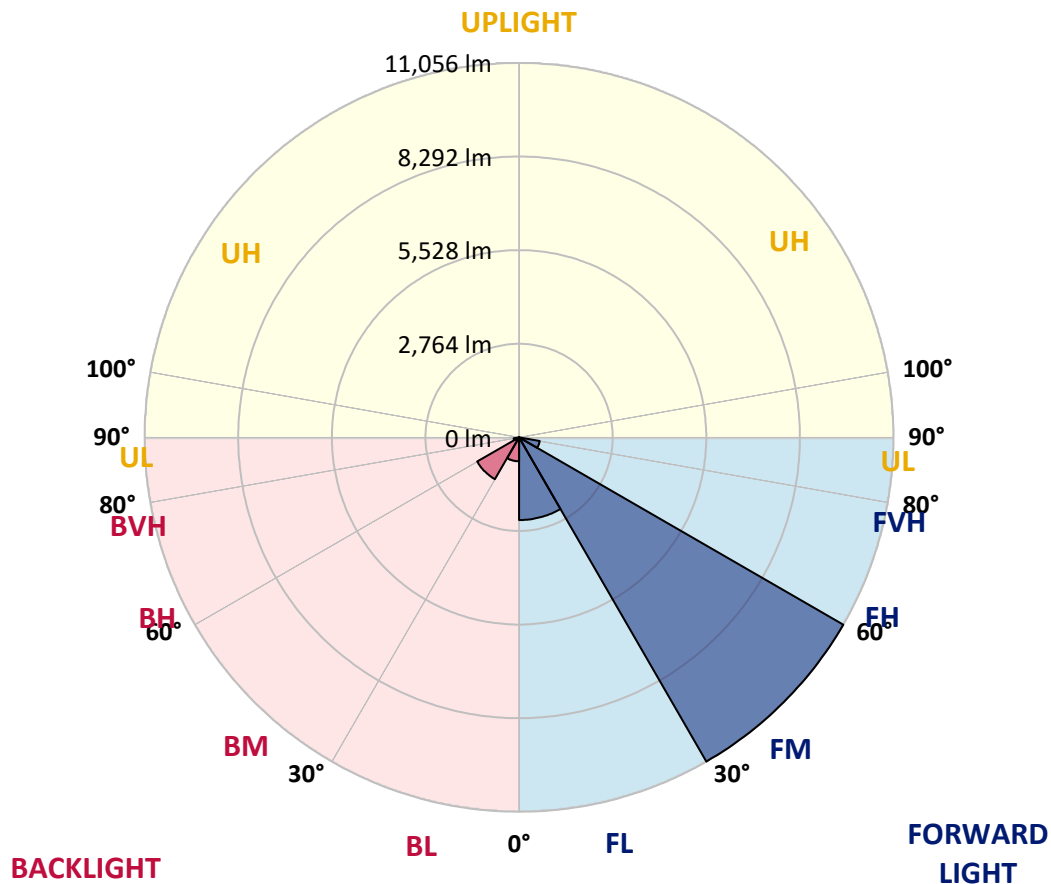
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2442.7	14.9			
FM (30°-60°)	11055.8	67.3			
FH (60°-80°)	618.4	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	707.9	4.3	B2/1000		
BM (30°-60°)	1428.0	8.7	B2/2500		
BH (60°-80°)	163.4	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°	1960.9	1960.9	1960.9	1960.9	1960.9	1960.9	1960.9	1960.9	1960.9	1960.9	1960.9
2.5°	2901.8	2856.2	2829.8	2808.8	2715.7	2568.3	2471.7	2420.8	2336.5	2194.4	2071.5
5°	3786.6	3753.2	3691.8	3649.6	3530.3	3321.4	3105.5	3019.4	2828.1	2506.8	2218.9
7.5°	4372.9	4348.3	4325.5	4269.3	4157.0	3967.4	3728.6	3639.1	3344.2	2887.8	2415.5
10°	4824.1	4804.8	4778.4	4776.7	4688.9	4518.6	4285.1	4192.1	3872.6	3302.1	2647.3
12.5°	5220.8	5205.0	5199.7	5248.9	5192.7	5066.3	4813.5	4697.7	4358.9	3725.1	2903.6
15°	5492.9	5489.4	5512.2	5608.8	5640.4	5582.4	5370.0	5245.4	4855.7	4150.0	3186.2
17.5°	5617.5	5628.1	5672.0	5838.7	5979.2	6028.3	5865.1	5759.7	5349.0	4580.1	3488.1
20°	5830.0	5826.4	5852.8	6010.8	6182.8	6358.4	6309.2	6219.7	5847.5	5034.7	3823.4
22.5°	6428.6	6377.7	6321.5	6346.1	6407.5	6612.9	6704.2	6658.5	6361.9	5501.7	4169.3
25°	7348.5	7295.8	7115.0	6939.4	6823.6	6916.6	7041.2	7064.1	6872.7	5980.9	4530.9
27.5°	8324.5	8277.1	8073.5	7810.1	7478.4	7316.9	7409.9	7455.5	7374.8	6551.5	4915.4
30°	9239.1	9175.9	8953.0	8626.4	8242.0	7994.5	7889.1	7920.7	7968.1	7227.3	5366.5
32.5°	10032.6	9985.2	9718.4	9374.3	9003.9	8745.8	8500.1	8552.7	8668.6	8054.2	5944.1
35°	10704.9	10680.4	10397.7	10055.4	9663.9	9532.3	9321.6	9332.1	9448.0	9053.0	6648.0
37.5°	11289.5	11247.4	10991.1	10673.3	10362.6	10341.6	10283.6	10288.9	10348.6	10216.9	7457.3
40°	11658.2	11619.5	11437.0	11240.4	11019.2	11022.7	11322.9	11345.7	11277.2	11359.7	8312.2
42.5°	11796.8	11768.8	11670.5	11672.2	11649.4	11753.0	12316.5	12358.6	12112.8	12256.8	9042.5
45°	11556.3	11544.1	11551.1	11803.9	12077.7	12397.2	13129.3	13203.0	12855.4	12851.9	9613.0
47.5°	10780.4	10755.8	10961.2	11391.3	12025.1	12646.5	13620.8	13734.9	13375.0	13192.5	9971.1
50°	9260.2	9330.4	9655.2	10301.2	11264.9	12304.2	13615.5	13813.9	13394.3	13162.6	9911.5
52.5°	6707.7	6693.7	7404.6	8292.9	9465.6	11208.8	12892.3	13181.9	12925.6	12869.4	9778.0
55°	3649.6	3777.8	4257.0	5433.2	6897.3	9135.5	11240.4	11872.3	12169.0	12762.4	10018.5
57.5°	1341.2	1397.4	1697.6	2529.7	3651.4	5680.7	8586.1	9539.3	10455.7	12463.9	9978.2
60°	540.7	551.2	670.6	930.4	1534.3	2891.3	5150.6	5996.7	6860.4	9541.1	7657.4
62.5°	393.2	407.3	454.7	544.2	775.9	1263.9	2220.7	2582.3	2822.8	4725.8	3772.5
65°	317.7	328.3	366.9	407.3	512.6	679.4	716.2	689.9	686.4	1221.8	865.5
67.5°	263.3	273.9	301.9	330.0	368.7	338.8	245.8	258.1	210.7	208.9	170.3
70°	193.1	205.4	233.5	263.3	221.2	91.3	142.2	210.7	159.7	133.4	129.9
72.5°	145.7	154.5	180.8	172.0	65.0	35.1	94.8	152.7	122.9	98.3	96.6
75°	108.8	114.1	91.3	28.1	7.0	8.8	35.1	63.2	68.5	56.2	56.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	5.3	7.0	8.8	10.5
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°	1960.9	1960.9	1960.9	1960.9	1960.9	1960.9	1960.9	1960.9	1960.9	1960.9	1960.9
2.5°	2001.3	1927.5	1822.2	1734.4	1667.7	1602.8	1553.6	1504.4	1502.7	1478.1	1472.9
5°	2085.5	1952.1	1759.0	1620.3	1536.0	1485.1	1450.0	1432.5	1423.7	1414.9	1411.4
7.5°	2206.6	2015.3	1748.5	1601.0	1530.8	1497.4	1472.9	1462.3	1457.1	1450.0	1448.3
10°	2355.9	2106.6	1787.1	1637.9	1576.4	1544.8	1518.5	1502.7	1493.9	1481.6	1478.1
12.5°	2534.9	2218.9	1848.5	1699.3	1634.4	1592.2	1557.1	1534.3	1522.0	1506.2	1502.7
15°	2728.0	2340.1	1917.0	1755.5	1678.2	1623.8	1579.9	1544.8	1522.0	1502.7	1497.4
17.5°	2928.1	2462.9	1978.4	1794.1	1699.3	1634.4	1571.2	1523.8	1495.7	1471.1	1464.1
20°	3152.8	2589.3	2018.8	1801.1	1692.3	1606.3	1532.5	1472.9	1444.8	1411.4	1404.4
22.5°	3388.1	2707.0	2036.4	1785.3	1653.7	1553.6	1474.6	1413.2	1372.8	1337.7	1327.1
25°	3616.3	2812.3	2027.6	1741.4	1595.7	1479.9	1399.1	1335.9	1292.0	1256.9	1248.1
27.5°	3858.6	2900.1	1996.0	1676.5	1516.7	1399.1	1321.9	1267.5	1227.1	1188.5	1179.7
30°	4130.7	2980.8	1945.1	1597.5	1423.7	1316.6	1256.9	1220.1	1176.2	1135.8	1123.5
32.5°	4458.9	3052.8	1871.3	1502.7	1341.2	1244.6	1211.3	1183.2	1132.3	1090.2	1081.4
35°	4834.6	3112.5	1778.3	1404.4	1260.4	1199.0	1192.0	1155.1	1088.4	1039.2	1028.7
37.5°	5270.0	3170.4	1667.7	1307.8	1200.8	1177.9	1179.7	1116.5	1035.7	976.0	969.0
40°	5738.7	3228.3	1544.8	1223.6	1146.3	1165.6	1149.8	1060.3	928.7	870.7	863.7
42.5°	6226.7	3291.5	1420.2	1144.6	1100.7	1118.2	1095.4	948.0	853.2	823.3	819.8
45°	6667.3	3367.0	1285.0	1065.6	1055.0	1049.8	1011.2	858.4	818.1	797.0	795.2
47.5°	6985.1	3354.7	1141.1	990.1	1005.9	988.3	870.7	816.3	782.9	754.9	747.8
50°	6927.1	3140.6	991.8	905.8	942.7	926.9	782.9	767.1	737.3	707.5	696.9
52.5°	6779.7	2849.1	861.9	816.3	874.2	837.4	723.3	707.5	681.1	642.5	630.2
55°	6858.7	2575.3	760.1	744.3	804.0	693.4	656.6	632.0	603.9	561.8	556.5
57.5°	6604.1	2101.3	610.9	621.4	711.0	591.6	575.8	537.2	489.8	461.7	458.2
60°	4571.3	1128.8	382.7	395.0	514.4	496.8	516.1	481.0	423.1	396.7	391.5
62.5°	2099.6	452.9	208.9	200.1	270.3	337.1	442.4	438.9	366.9	324.8	321.3
65°	509.1	207.1	149.2	140.4	152.7	201.9	287.9	345.8	296.7	247.5	242.3
67.5°	165.0	168.5	136.9	128.2	135.2	151.0	172.0	191.3	189.6	173.8	170.3
70°	131.7	152.7	126.4	115.9	115.9	121.1	115.9	93.0	80.8	87.8	91.3
72.5°	98.3	115.9	100.1	89.5	86.0	84.3	72.0	52.7	36.9	33.4	31.6
75°	57.9	65.0	61.4	52.7	49.2	43.9	35.1	22.8	12.3	8.8	5.3
77.5°	10.5	12.3	14.0	10.5	8.8	7.0	5.3	1.8	0.0	0.0	0.0
80°	0.0	1.8	1.8	1.8	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)