

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: P632732

Luminaire Tested: GWS-SA2D-730-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-730-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10541.4 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

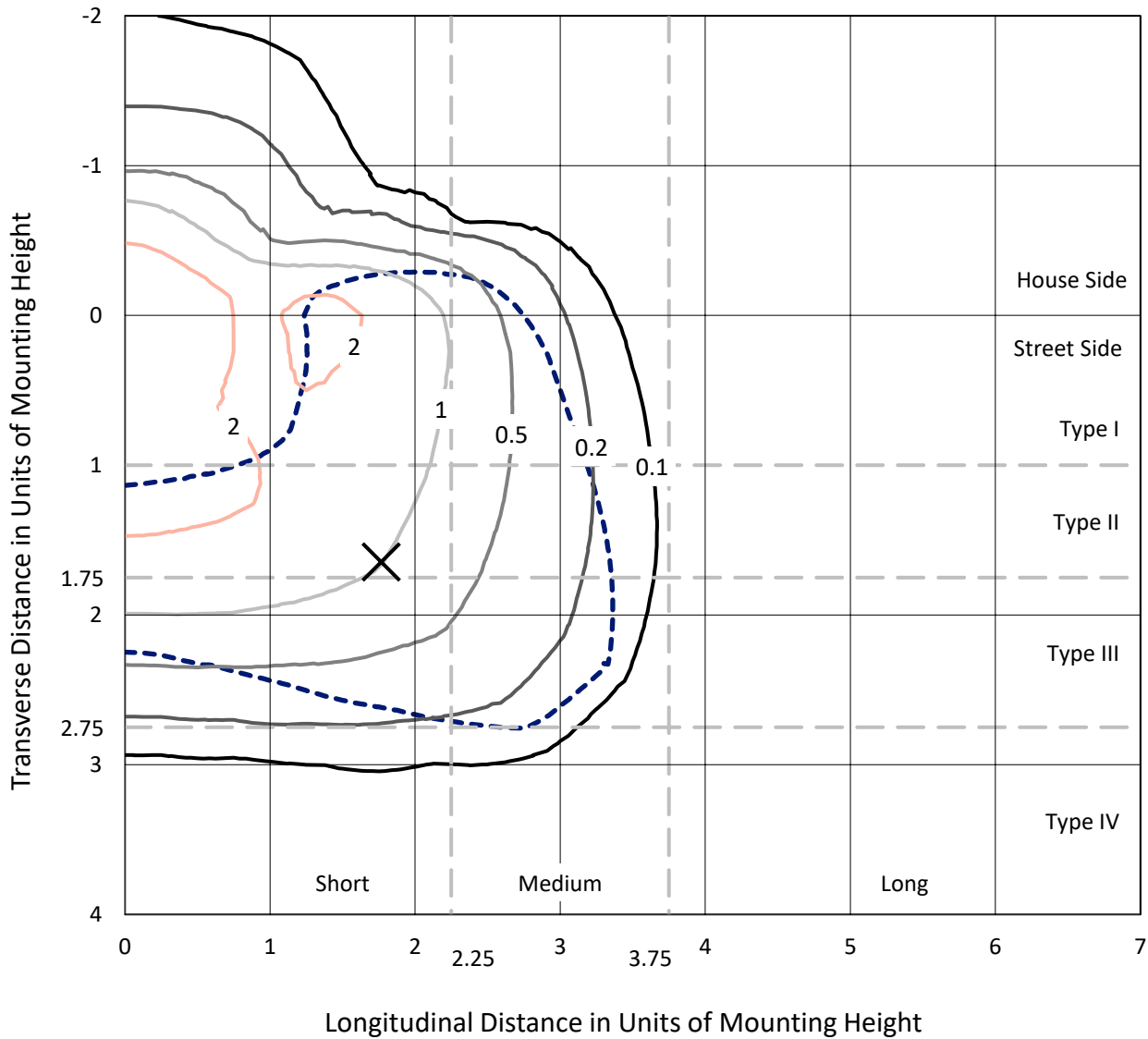
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

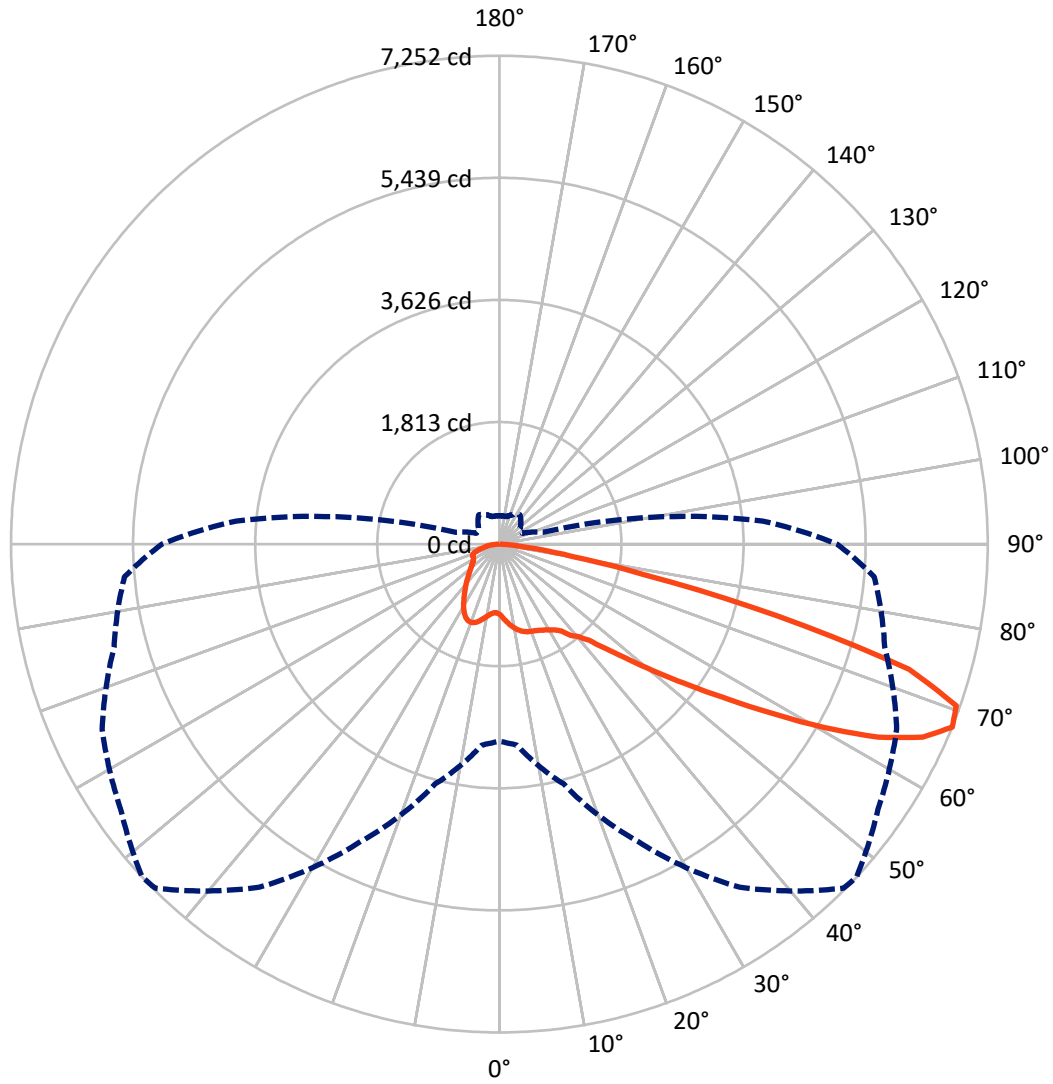
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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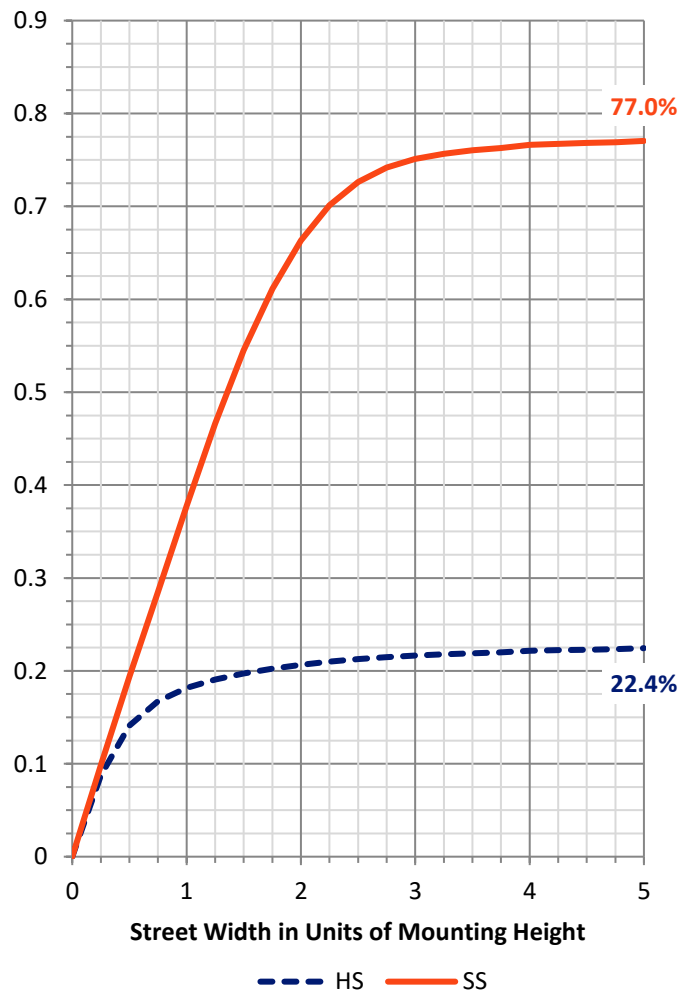
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2402.5	0.0	2402.5
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	8138.9	0.0	8138.9
	% Fixture	77.2	0.0	77.2
Total	Lumens	10541.4	0.0	10541.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	1.0
10°-20°	355.8	3.4
20°-30°	604.8	5.7
30°-40°	886.0	8.4
40°-50°	1349.9	12.8
50°-60°	2415.2	22.9
60°-70°	3222.8	30.6
70°-80°	1457.4	13.8
80°-90°	142.8	1.4
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°	10541.4	100.0
0°-180°	10541.4	100.0

Coefficient of Utilization



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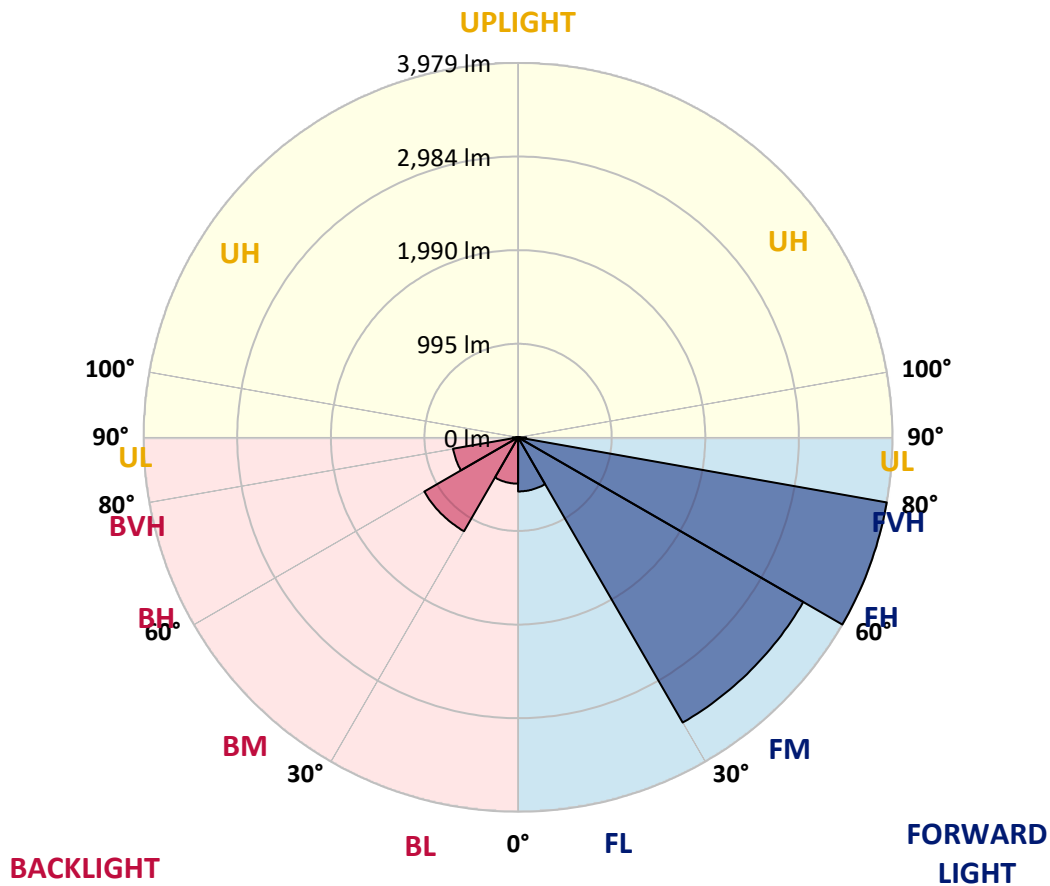
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	574.9	5.5			
FM (30°-60°)	3499.9	33.2			
FH (60°-80°)	3979.3	37.7			G2/5000
FVH (80°-90°)	84.9	0.8			G1/100
BL (0°-30°)	492.5	4.7	B1/500		
BM (30°-60°)	1151.1	10.9	B2/2500		
BH (60°-80°)	701.0	6.6	B2/1000		G2/1000
BVH (80°-90°)	57.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0
2.5°	1114.3	1118.2	1117.4	1111.3	1107.5	1100.6	1101.4	1090.7	1074.7	1064.0	1051.8
5°	1212.7	1218.8	1211.1	1201.2	1186.0	1163.9	1161.6	1137.2	1106.7	1085.4	1063.3
7.5°	1298.0	1301.9	1292.7	1275.9	1253.8	1224.1	1218.8	1189.8	1151.7	1118.2	1086.1
10°	1364.4	1368.9	1356.7	1334.6	1305.7	1275.9	1272.1	1242.4	1202.0	1162.4	1122.0
12.5°	1420.8	1422.3	1409.3	1379.6	1348.3	1317.9	1314.0	1286.6	1249.3	1208.9	1164.7
15°	1453.5	1454.3	1438.3	1405.5	1375.8	1349.1	1346.8	1323.2	1288.9	1250.8	1203.5
17.5°	1451.2	1452.8	1441.3	1412.4	1386.5	1370.4	1368.2	1352.9	1326.2	1291.9	1244.7
20°	1423.0	1424.6	1416.9	1397.9	1384.2	1379.6	1380.4	1375.8	1359.8	1331.6	1283.6
22.5°	1400.9	1403.2	1396.4	1382.6	1381.1	1391.8	1394.1	1396.4	1388.7	1363.6	1317.1
25°	1411.6	1415.4	1404.7	1385.7	1388.7	1412.4	1416.9	1424.6	1418.5	1397.1	1356.7
27.5°	1485.5	1487.8	1460.4	1421.5	1412.4	1437.5	1444.4	1456.6	1452.0	1432.2	1400.9
30°	1657.0	1655.5	1596.8	1501.5	1463.4	1473.3	1478.7	1496.2	1497.7	1484.8	1455.1
32.5°	1898.7	1891.0	1800.3	1648.7	1538.1	1513.7	1519.8	1543.5	1561.0	1547.3	1506.9
35°	2154.0	2147.1	2047.3	1869.7	1676.1	1591.5	1584.6	1602.9	1629.6	1591.5	1533.6
37.5°	2397.1	2386.5	2284.3	2064.8	1846.1	1727.9	1718.0	1699.7	1683.7	1610.5	1566.3
40°	2667.0	2654.8	2565.6	2317.1	2033.6	1832.3	1807.2	1734.8	1720.3	1673.8	1651.7
42.5°	2955.1	2955.1	2881.1	2636.5	2259.9	1981.7	1949.0	1840.0	1855.2	1824.7	1798.8
45°	3243.2	3251.6	3192.9	2958.1	2562.5	2263.8	2211.2	2056.4	2093.0	2079.3	2066.3
47.5°	3488.6	3504.6	3493.2	3286.6	2933.0	2606.7	2526.7	2365.9	2444.4	2477.2	2513.8
50°	3753.1	3770.6	3759.2	3677.7	3366.7	3022.2	2950.5	2784.3	2919.3	3017.6	3137.2
52.5°	4145.6	4170.8	4075.5	4044.3	3893.4	3494.0	3429.9	3240.9	3485.6	3648.7	3915.5
55°	4477.2	4476.4	4442.9	4514.6	4458.9	4070.9	4000.1	3828.6	4141.1	4314.1	4704.3
57.5°	4631.2	4649.5	4764.6	4967.3	5078.6	4776.0	4708.2	4532.8	4844.6	4934.5	5356.0
60°	4710.4	4733.3	4955.9	5356.8	5656.3	5545.8	5519.1	5295.8	5471.1	5460.5	5905.6
62.5°	4599.2	4644.9	5002.4	5535.2	6068.7	6319.5	6311.1	5973.4	6003.9	5899.5	6246.3
65°	4088.5	4138.0	4699.0	5446.0	6304.2	6907.9	6910.2	6587.0	6413.2	6112.9	6189.1
67.5°	2923.8	2994.7	3688.3	4872.8	6221.1	7225.7	7252.4	6865.2	6509.3	5923.9	5588.5
70°	1593.8	1645.6	2189.1	3542.0	5472.6	7149.5	7199.0	6731.1	6085.5	5124.3	4301.9
72.5°	724.1	740.9	1018.3	1943.6	3738.6	6154.1	6361.4	6007.0	4997.8	3785.1	2735.6
75°	331.6	339.2	443.6	929.9	1953.5	4118.2	4263.8	4474.2	3478.0	2390.3	1426.1
77.5°	208.1	210.4	252.3	425.3	974.1	2055.7	2208.9	2663.9	2036.6	1182.9	596.0
80°	122.7	125.0	157.0	230.2	457.3	940.6	1086.1	1053.4	957.3	510.7	271.3
82.5°	61.7	64.0	90.7	131.1	249.2	374.2	440.6	442.8	356.7	276.7	153.2
85°	22.1	22.9	29.7	51.8	105.9	123.5	138.0	168.4	174.5	160.8	73.9
87.5°	0.0	0.0	0.8	1.5	3.0	12.2	13.0	24.4	51.1	57.2	29.7
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°	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0
2.5°	1048.0	1036.6	1032.8	1029.0	1022.9	1020.6	1016.0	1011.4	1011.4	1006.9	1004.6
5°	1053.4	1038.1	1028.2	1023.6	1019.8	1022.1	1022.1	1023.6	1029.0	1025.9	1027.5
7.5°	1072.4	1054.9	1041.2	1037.4	1037.4	1046.5	1052.6	1060.2	1070.1	1071.7	1071.7
10°	1106.0	1085.4	1070.9	1068.6	1072.4	1085.4	1094.5	1103.7	1115.9	1116.6	1118.2
12.5°	1142.5	1122.0	1107.5	1110.5	1114.3	1131.1	1141.0	1148.6	1160.8	1160.8	1160.1
15°	1180.7	1157.8	1145.6	1151.7	1163.1	1182.2	1183.7	1184.5	1190.6	1189.0	1188.3
17.5°	1220.3	1195.9	1186.8	1195.9	1208.1	1217.2	1209.6	1199.0	1196.7	1193.6	1192.1
20°	1259.2	1234.0	1230.2	1237.1	1240.9	1233.3	1209.6	1189.8	1180.7	1176.1	1174.6
22.5°	1292.7	1271.4	1269.1	1269.1	1250.0	1223.3	1188.3	1161.6	1149.4	1143.3	1141.8
25°	1332.3	1312.5	1308.7	1288.1	1239.3	1190.6	1143.3	1118.9	1109.0	1106.0	1106.7
27.5°	1378.8	1365.1	1352.9	1294.2	1208.9	1132.6	1079.3	1068.6	1064.8	1068.6	1070.9
30°	1436.0	1422.3	1394.8	1286.6	1160.1	1057.2	1006.1	1005.4	1016.8	1026.7	1028.2
32.5°	1482.5	1476.4	1431.4	1262.2	1091.5	974.1	930.7	933.7	954.3	968.0	970.3
35°	1519.1	1529.0	1461.9	1221.8	1009.9	895.6	861.3	862.8	874.3	893.3	894.1
37.5°	1570.9	1604.4	1489.4	1160.1	916.2	827.8	796.5	785.1	783.5	788.9	790.4
40°	1675.3	1725.6	1509.2	1070.1	825.5	766.8	731.7	709.6	690.6	676.1	671.5
42.5°	1833.1	1891.0	1520.6	961.1	744.7	706.6	666.9	638.7	605.2	574.7	564.0
45°	2122.7	2141.8	1520.6	845.3	673.0	650.2	610.5	577.0	534.3	498.5	490.9
47.5°	2586.2	2525.2	1522.1	733.2	609.8	600.6	566.3	528.2	481.0	451.2	446.7
50°	3284.4	3070.2	1553.4	640.3	557.2	558.7	533.5	491.6	448.9	426.8	423.0
52.5°	4075.5	3741.7	1637.2	571.7	513.0	524.4	510.7	470.3	432.2	413.1	409.3
55°	4819.4	4359.1	1708.9	522.9	475.6	495.4	494.7	457.3	423.0	404.0	401.7
57.5°	5452.1	4782.1	1698.2	483.2	443.6	468.8	480.2	448.9	416.9	400.9	398.6
60°	5845.4	5006.2	1546.5	446.7	419.2	449.7	471.8	446.7	420.0	416.2	416.9
62.5°	6016.1	4965.0	1255.4	419.2	403.2	440.6	481.0	462.7	448.2	457.3	462.7
65°	5750.9	4611.4	923.8	398.6	388.0	442.8	502.3	487.8	448.2	454.3	456.6
67.5°	5014.6	3925.4	667.7	378.1	368.9	449.7	532.8	484.0	422.3	422.3	417.7
70°	3613.6	2823.2	484.8	357.5	349.9	439.8	534.3	458.1	392.5	390.3	378.8
72.5°	2174.6	1665.4	378.1	334.6	320.9	390.3	500.8	427.6	363.6	344.5	330.8
75°	1129.6	834.6	317.1	309.5	275.2	330.8	458.1	380.3	311.0	294.2	286.6
77.5°	484.0	390.3	272.1	275.9	228.7	278.2	369.7	329.3	275.9	254.6	247.7
80°	238.6	221.8	214.9	221.0	182.9	214.9	318.6	288.1	234.0	209.6	199.7
82.5°	136.4	129.6	154.7	157.0	130.3	179.9	269.1	243.9	193.6	166.9	150.9
85°	63.3	67.8	93.8	94.5	80.8	123.5	176.1	137.2	102.9	85.4	81.6
87.5°	25.2	29.7	41.2	40.4	23.6	22.9	15.2	8.4	6.9	6.1	5.3
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)