

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: P636855

Luminaire Tested: GWS-SA4B-750-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636855  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-750-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

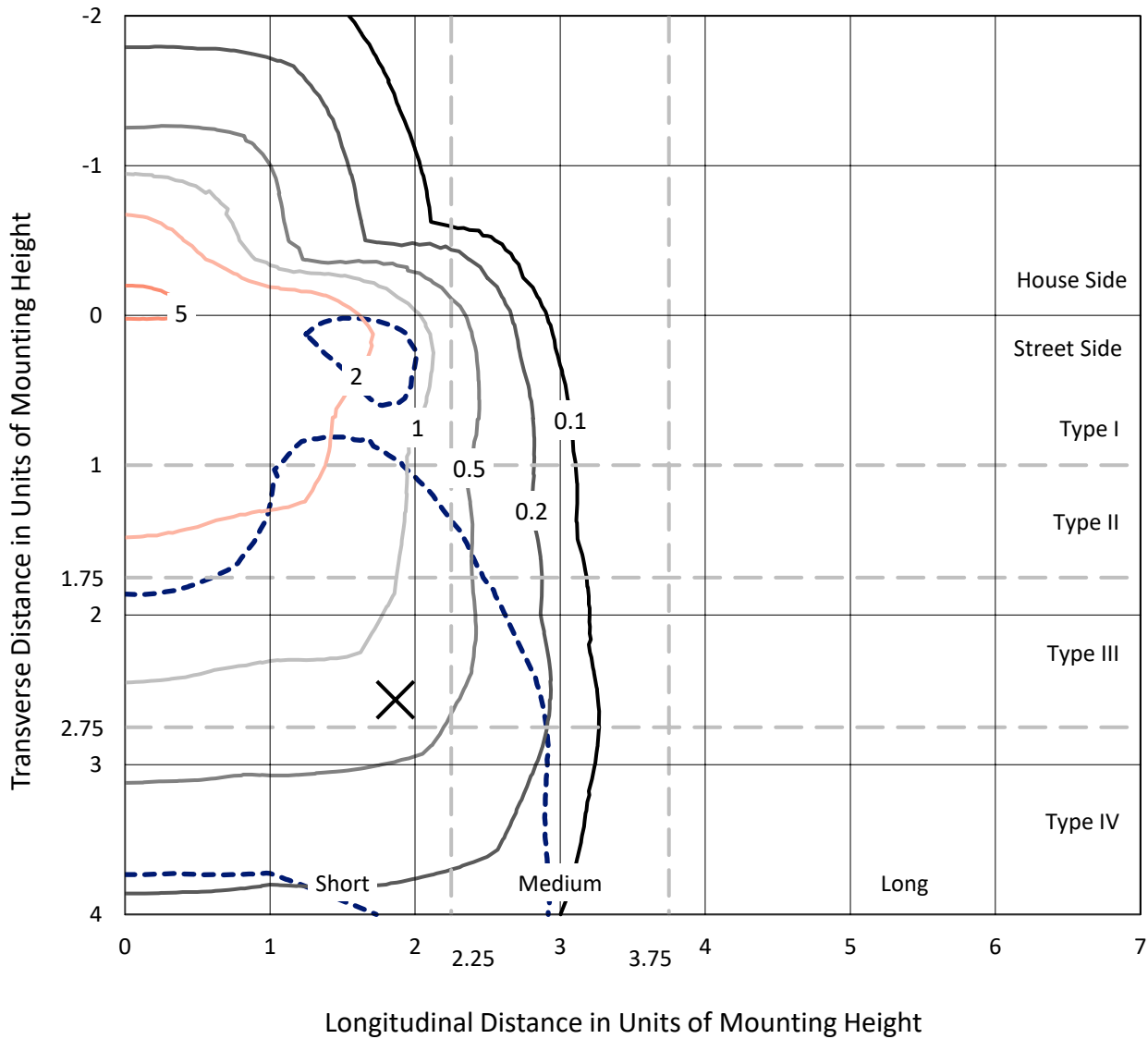
Lumens per Lamp: N/A  
Luminaire Lumens: 14301.3 lumens  
Efficiency: N/A  
Efficacy: 151.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

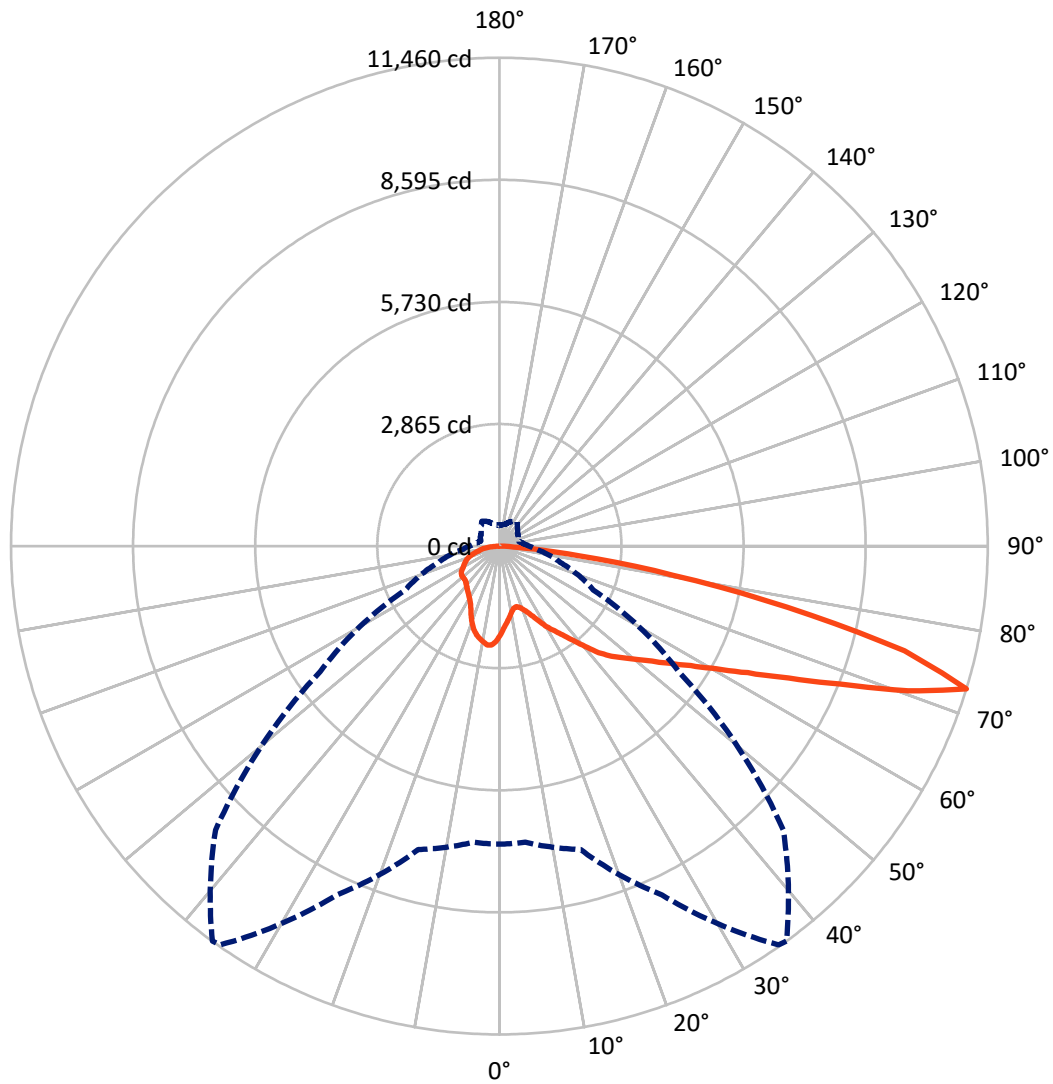
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P636855  
CATALOG NUMBER: GWS-SA4B-750-U-T4FT-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P636855

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3297.1	0.0	3297.1
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	11004.2	0.0	11004.2
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	14301.3	0.0	14301.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.6	1.4
10°-20°	552.0	3.9
20°-30°	914.2	6.4
30°-40°	1369.0	9.6
40°-50°	1997.3	14.0
50°-60°	2842.8	19.9
60°-70°	3591.6	25.1
70°-80°	2559.3	17.9
80°-90°	279.4	2.0
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°	14301.3	100.0
0°-180°	14301.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P636855

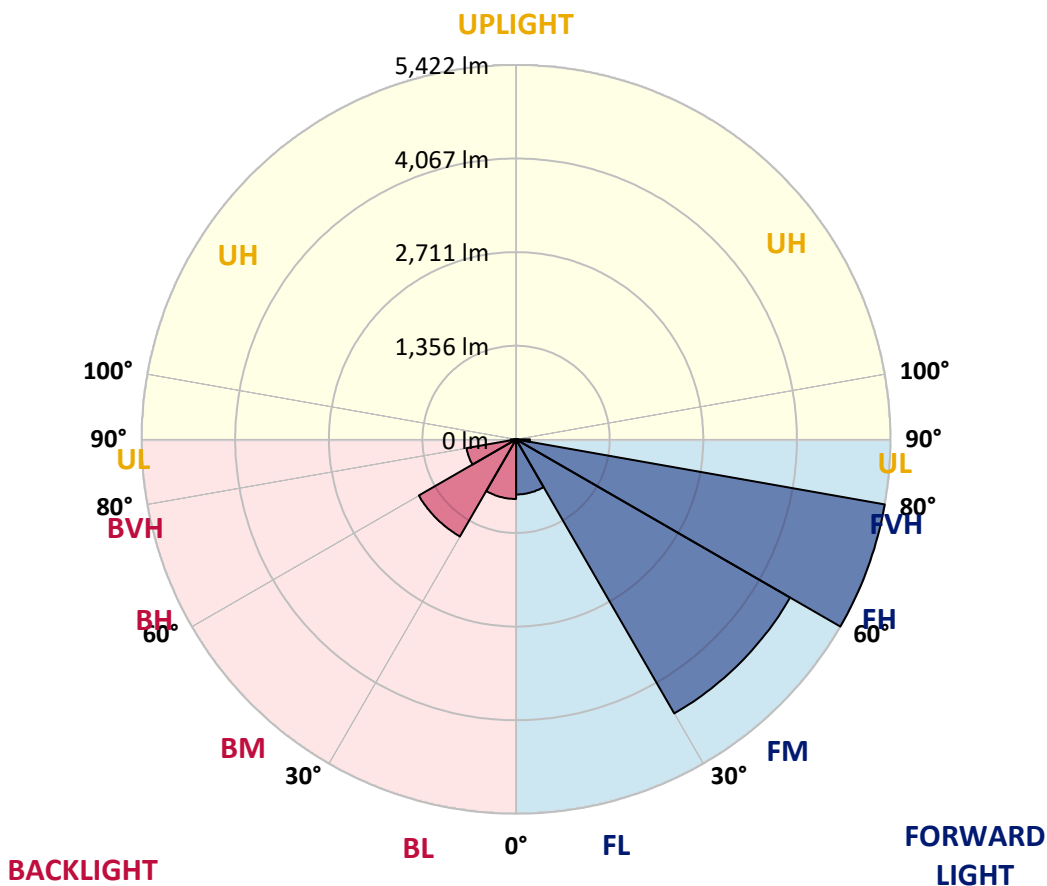
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	798.4	5.6			
FM (30°-60°)	4583.2	32.0			
FH (60°-80°)	5422.1	37.9			G3/7500
FVH (80°-90°)	200.5	1.4			G2/225
BL (0°-30°)	863.4	6.0	B2/1000		
BM (30°-60°)	1625.9	11.4	B2/2500		
BH (60°-80°)	728.9	5.1	B2/1000		G2/1000
BVH (80°-90°)	78.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





REPORT NUMBER: P636855  
 CATALOG NUMBER: GWS-SA4B-750-U-T4FT-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1
2.5°	1909.4	1906.3	1899.9	1919.0	1938.1	1936.0	1962.5	1988.0	2015.6	2044.2	2082.4
5°	1756.6	1754.5	1749.2	1777.8	1806.5	1805.4	1848.9	1890.3	1946.6	2008.1	2084.6
7.5°	1603.8	1598.5	1605.9	1642.0	1682.3	1686.5	1746.0	1813.9	1895.6	1988.0	2096.2
10°	1469.0	1467.9	1471.1	1511.4	1571.9	1576.2	1652.6	1747.0	1855.3	1978.4	2122.8
12.5°	1433.9	1431.8	1423.3	1443.5	1489.1	1495.5	1579.3	1695.0	1827.7	1983.7	2158.9
15°	1491.3	1485.9	1456.2	1446.7	1469.0	1474.3	1545.4	1664.3	1811.8	1993.3	2204.5
17.5°	1590.0	1586.8	1530.5	1491.3	1506.1	1510.4	1563.4	1659.0	1807.5	2012.4	2260.8
20°	1734.3	1720.5	1632.4	1573.0	1573.0	1579.3	1611.2	1682.3	1812.9	2035.7	2324.4
22.5°	1925.4	1897.8	1773.6	1692.9	1671.7	1680.2	1694.0	1740.7	1835.1	2075.0	2404.0
25°	2139.8	2114.3	1966.8	1853.2	1823.5	1826.7	1815.0	1823.5	1884.0	2129.1	2502.8
27.5°	2368.0	2351.0	2193.9	2049.5	2002.8	2002.8	1961.4	1941.3	1951.9	2190.7	2613.1
30°	2571.7	2548.4	2415.7	2257.6	2196.0	2196.0	2117.5	2074.0	2048.5	2266.1	2760.7
32.5°	2678.9	2665.1	2577.1	2456.1	2380.7	2369.0	2301.1	2250.1	2190.7	2377.5	2960.2
35°	2819.0	2815.9	2762.8	2668.3	2572.8	2555.8	2509.1	2468.8	2365.8	2516.6	3225.6
37.5°	2995.2	2989.9	2981.4	2925.2	2810.6	2807.4	2766.0	2717.2	2583.4	2717.2	3547.2
40°	3192.7	3183.1	3172.5	3171.4	3102.4	3090.8	3087.6	3032.4	2845.6	2959.2	3882.6
42.5°	3464.4	3431.5	3331.7	3376.3	3427.2	3416.6	3456.9	3374.2	3172.5	3246.8	4199.9
45°	3798.7	3718.0	3520.6	3533.4	3661.8	3683.0	3823.1	3803.0	3532.3	3579.0	4534.3
47.5°	3999.3	3929.3	3745.6	3735.0	3895.3	3921.8	4226.5	4264.7	3919.7	3979.1	4947.1
50°	4163.8	4115.0	3964.3	3979.1	4149.0	4175.5	4626.6	4708.3	4284.8	4388.8	5426.9
52.5°	4362.3	4292.3	4175.5	4245.6	4453.6	4485.4	5071.3	5159.4	4613.9	4838.9	5923.6
55°	4473.8	4445.1	4447.2	4554.4	4815.5	4859.0	5537.3	5522.4	4915.3	5224.2	6297.2
57.5°	4730.6	4720.0	4817.6	4858.0	5238.0	5294.2	6003.2	5875.9	5189.1	5522.4	6476.6
60°	5183.8	5157.3	5242.2	5303.8	5760.2	5839.8	6523.3	6221.9	5374.9	5744.2	6416.1
62.5°	5820.7	5787.8	5790.9	5888.6	6459.6	6543.5	7101.8	6510.6	5432.2	5778.2	6032.9
65°	6612.5	6564.7	6510.6	6643.2	7388.3	7458.4	7731.2	6720.7	5295.3	5451.3	5232.6
67.5°	7447.8	7408.5	7344.8	7622.9	8590.9	8633.3	8437.0	6702.7	4861.2	4576.7	3670.3
70°	7496.6	7506.1	7807.6	8813.8	10160.7	10171.3	9104.6	6339.7	3936.7	2966.6	1828.8
72.5°	6993.5	6977.6	7370.3	9031.4	11423.7	11459.8	9419.8	5136.1	2432.7	1479.6	857.6
75°	5680.6	5708.2	6121.0	7902.0	9791.3	9823.2	7679.2	3028.1	1155.9	723.9	548.7
77.5°	2445.4	2599.3	3413.4	5567.0	7012.6	6913.9	3957.9	1227.0	616.7	515.8	420.3
80°	705.8	766.3	1216.4	2647.1	4202.0	4127.7	1566.6	459.6	429.9	387.4	301.4
82.5°	228.2	252.6	445.8	1054.0	1882.9	1880.8	594.4	271.7	281.3	263.2	194.2
85°	63.7	73.2	136.9	319.5	582.7	571.0	171.9	128.4	149.7	151.8	96.6
87.5°	0.0	0.0	1.1	2.1	2.1	2.1	4.2	19.1	43.5	55.2	39.3
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°	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1
2.5°	2105.8	2102.6	2146.1	2180.1	2211.9	2233.2	2239.5	2243.8	2252.3	2256.5	2252.3
5°	2120.7	2136.6	2208.8	2261.8	2304.3	2329.7	2330.8	2328.7	2335.1	2329.7	2326.6
7.5°	2152.5	2183.3	2274.6	2330.8	2358.4	2359.5	2334.0	2304.3	2289.4	2276.7	2272.4
10°	2195.0	2240.6	2340.4	2377.5	2369.0	2329.7	2273.5	2226.8	2200.3	2181.2	2176.9
12.5°	2253.3	2304.3	2398.7	2397.7	2344.6	2274.6	2208.8	2152.5	2114.3	2092.0	2084.6
15°	2308.5	2373.3	2441.2	2391.3	2307.5	2222.5	2137.6	2062.3	2011.3	1976.3	1969.9
17.5°	2376.5	2445.4	2472.0	2371.1	2260.8	2151.4	2037.9	1939.2	1870.2	1828.8	1825.6
20°	2455.0	2516.6	2486.8	2336.1	2200.3	2057.0	1903.1	1792.7	1718.4	1678.1	1681.2
22.5°	2546.3	2590.9	2491.1	2288.4	2116.4	1923.2	1751.3	1645.2	1595.3	1574.0	1575.1
25°	2643.9	2672.6	2483.7	2223.6	1988.0	1759.8	1595.3	1546.4	1542.2	1536.9	1539.0
27.5°	2759.6	2753.2	2461.4	2132.3	1815.0	1569.8	1485.9	1498.7	1515.7	1513.5	1515.7
30°	2914.6	2854.1	2432.7	2006.0	1609.1	1410.6	1421.2	1457.3	1479.6	1481.7	1488.1
32.5°	3091.8	2965.5	2387.1	1834.1	1412.7	1321.4	1360.7	1404.2	1430.8	1436.1	1444.6
35°	3303.0	3092.9	2306.4	1619.7	1271.5	1268.4	1304.4	1334.2	1362.8	1364.9	1364.9
37.5°	3546.1	3220.3	2178.0	1383.0	1184.5	1222.7	1256.7	1263.1	1270.5	1264.1	1267.3
40°	3769.0	3343.4	1995.4	1167.5	1113.4	1182.4	1211.0	1189.8	1166.5	1150.5	1153.7
42.5°	3955.8	3427.2	1753.4	1016.8	1041.2	1146.3	1168.6	1125.1	1079.4	1049.7	1054.0
45°	4166.0	3504.7	1469.0	914.9	979.7	1120.8	1135.7	1079.4	1021.1	976.5	970.1
47.5°	4455.7	3662.9	1216.4	843.8	936.1	1107.0	1131.4	1055.0	978.6	911.7	904.3
50°	4813.4	3886.8	1005.1	797.1	916.0	1099.6	1130.4	1028.5	937.2	858.7	853.4
52.5°	5204.0	4105.5	849.1	761.0	895.8	1077.3	1125.1	998.8	893.7	808.8	802.4
55°	5464.0	4191.4	744.0	727.1	862.9	1042.3	1103.8	970.1	827.9	750.4	740.8
57.5°	5540.5	4081.0	670.8	696.3	820.5	993.5	1063.5	909.6	787.6	726.0	718.6
60°	5408.8	3803.0	625.2	670.8	773.8	930.8	993.5	874.6	755.7	700.5	695.2
62.5°	5037.4	3374.2	590.1	644.3	726.0	865.0	948.9	832.1	720.7	677.2	669.7
65°	4290.1	2767.0	561.5	616.7	680.4	802.4	900.1	789.7	682.5	649.6	641.1
67.5°	3000.5	1943.4	530.7	583.8	634.7	741.9	849.1	750.4	643.2	618.8	610.3
70°	1466.8	1030.6	493.5	545.6	585.9	680.4	798.2	702.6	591.2	577.4	565.7
72.5°	698.4	576.3	450.0	493.5	519.0	598.6	713.3	633.6	529.6	499.9	479.7
75°	468.1	409.7	392.7	432.0	438.4	502.0	611.4	546.6	467.0	433.0	416.1
77.5°	354.5	313.1	330.1	365.1	352.4	412.9	503.1	487.2	421.4	390.6	382.1
80°	249.4	228.2	262.2	283.4	273.8	351.3	453.2	417.1	347.1	313.1	306.7
82.5°	157.1	152.8	193.2	196.4	199.5	278.1	372.5	328.0	269.6	221.8	205.9
85°	78.5	87.0	115.7	115.7	114.6	143.3	212.3	184.7	145.4	115.7	112.5
87.5°	26.5	37.1	49.9	40.3	30.8	24.4	27.6	34.0	36.1	35.0	35.0
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)