

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P598482

Luminaire Tested: **PMM-SA3D-835-U-SL2**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P598482  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-16)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA3D-835-U-SL2  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16301 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

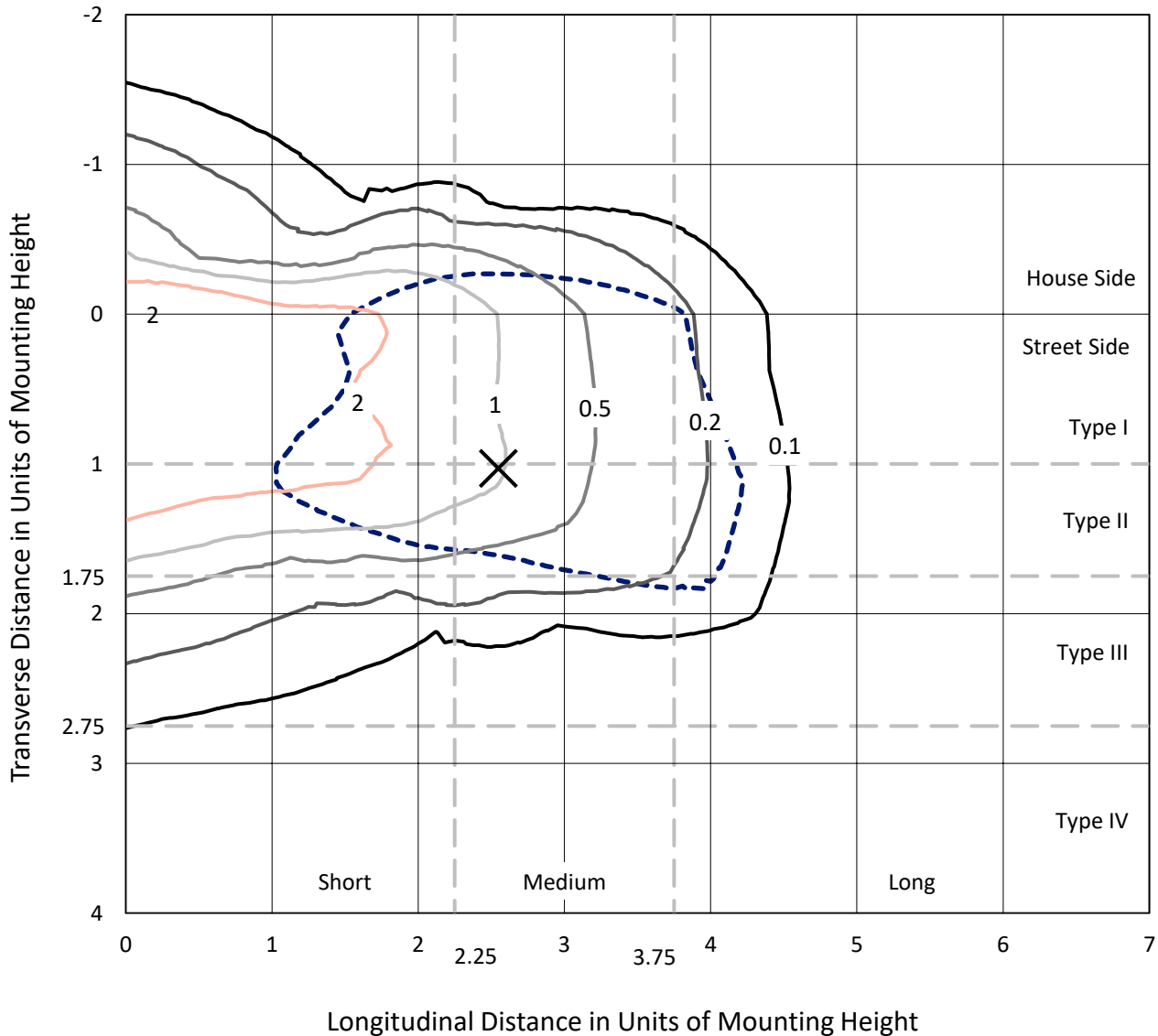
Input Watts (W): 192  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

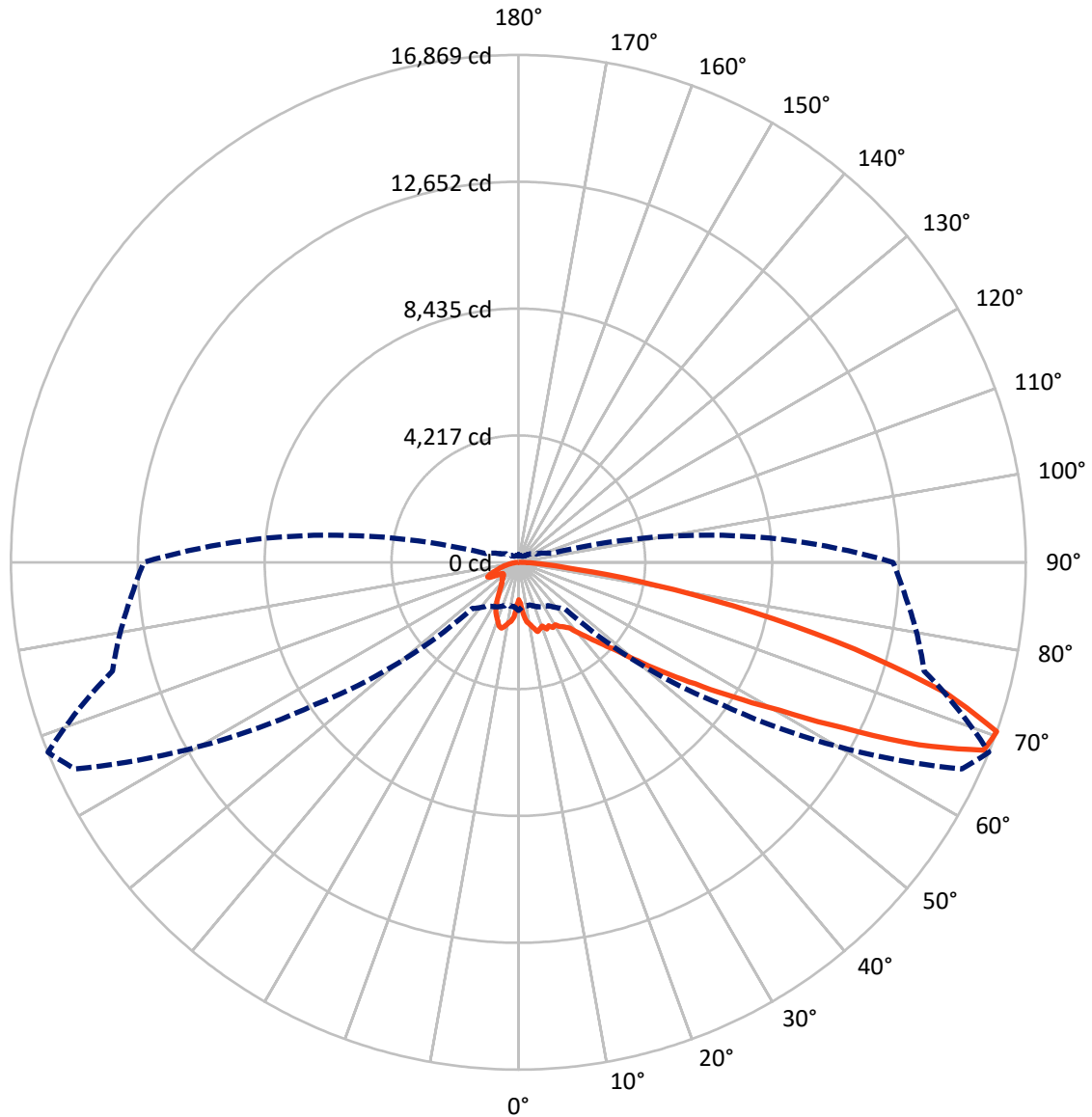
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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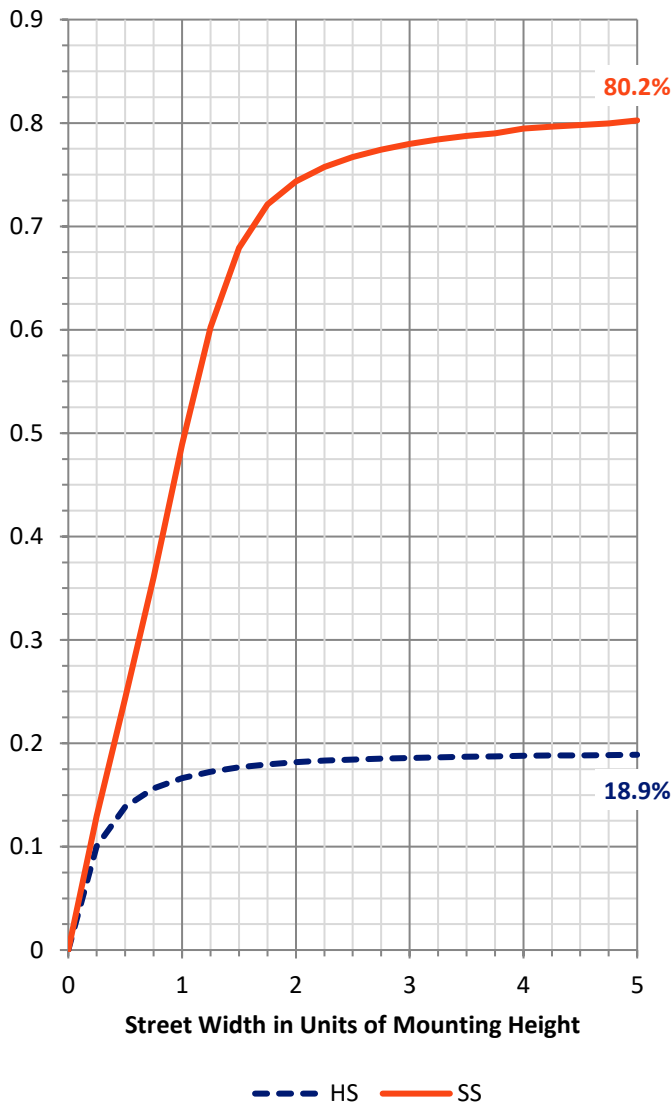
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3112.3	0.0	3112.3
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	13188.7	0.0	13188.7
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	16301.0	0.0	16301.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.9	1.0
10°-20°	544.1	3.3
20°-30°	827.6	5.1
30°-40°	1264.1	7.8
40°-50°	2173.6	13.3
50°-60°	3597.8	22.1
60°-70°	4435.6	27.2
70°-80°	2849.3	17.5
80°-90°	442.0	2.7
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°	16301.0	100.0
0°-180°	16301.0	100.0



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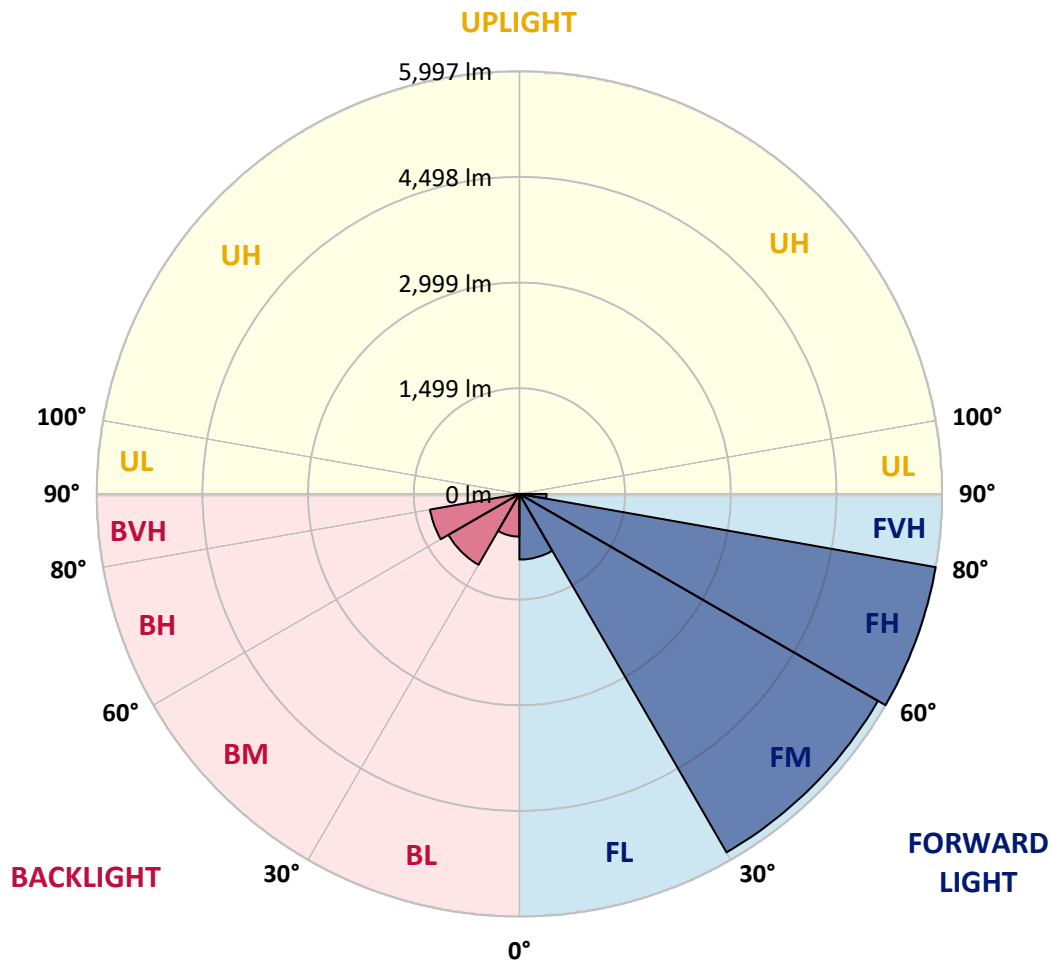
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	932.1	5.7			
FM (30°-60°)	5873.9	36.0			
FH (60°-80°)	5997.5	36.8			G3/7500
FVH (80°-90°)	385.2	2.4			G3/500
BL (0°-30°)	606.4	3.7	B2/1000		
BM (30°-60°)	1161.7	7.1	B2/2500		
BH (60°-80°)	1287.4	7.9	B3/2500		G3/2500
BVH (80°-90°)	56.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9
2.5°	1436.1	1378.1	1319.4	1348.1	1393.8	1434.1	1425.9	1430.6	1375.4	1367.9	1513.2
5°	1691.9	1592.3	1590.3	1591.7	1595.7	1549.4	1662.6	1721.3	1734.2	1794.3	1936.9
7.5°	1780.6	1740.4	1699.4	1719.9	1668.1	1672.8	1812.0	1964.8	2001.0	2044.7	2239.8
10°	1762.2	1724.0	1736.3	1739.7	1749.3	1826.3	1915.7	2062.4	2093.1	2232.3	2282.8
12.5°	1764.9	1758.1	1815.4	1817.5	1919.8	2058.3	2093.8	2228.9	2241.1	2343.5	2554.3
15°	1858.4	1905.5	1873.4	1890.5	1910.3	2076.0	2127.2	2321.0	2394.6	2526.3	2684.6
17.5°	2040.6	2054.2	1958.0	1932.8	1997.6	2048.1	2164.7	2248.6	2325.7	2693.5	2911.8
20°	2082.9	2119.7	2005.1	1874.8	2011.9	2082.2	2163.4	2201.6	2261.6	2718.0	3027.8
22.5°	2264.3	2187.9	2049.4	1936.2	1981.2	2049.4	2108.1	2252.1	2409.7	2647.8	3143.7
25°	2367.4	2323.0	2199.5	2078.1	2039.9	2041.9	2155.2	2284.1	2338.7	2750.8	3166.9
27.5°	2616.4	2545.4	2267.8	2244.6	2100.6	1988.7	2162.7	2363.3	2458.8	2670.3	3280.2
30°	2928.2	2874.3	2509.9	2479.2	2259.6	2064.4	2258.2	2421.9	2408.3	2722.8	3358.6
32.5°	3180.6	3270.6	2902.9	2660.7	2504.5	2317.6	2228.2	2411.7	2547.5	2844.9	3491.7
35°	3540.8	3625.4	3209.2	3045.5	2706.4	2434.9	2437.6	2552.2	2636.2	2987.5	3640.4
37.5°	4164.4	4090.0	3755.0	3496.5	3279.5	2874.3	2752.8	2712.6	2780.1	3162.2	3931.7
40°	4614.0	4551.2	4156.9	4009.5	3587.2	3351.8	3018.9	2980.7	3100.1	3342.3	4169.8
42.5°	5146.8	5034.9	4667.9	4546.4	4105.0	3680.7	3345.0	3366.8	3424.8	3682.0	4491.8
45°	5689.2	5417.6	5209.6	5200.0	4905.3	4319.2	3868.3	3850.5	3852.6	4182.1	4853.4
47.5°	6119.7	5875.4	5637.3	5524.1	5375.3	5423.8	4628.3	4420.2	4357.4	4685.6	5395.8
50°	6411.0	6129.9	5860.4	5833.8	6230.9	6492.2	5341.9	5119.5	5158.4	5406.0	6119.0
52.5°	6417.1	6083.5	5802.4	5988.7	6924.0	7297.9	6571.3	5949.8	6073.9	6242.5	7062.5
55°	5970.9	5625.0	5442.2	5866.5	7194.9	8253.7	8298.7	7280.1	7136.9	7198.9	8190.2
57.5°	5030.1	4680.8	4574.4	5082.7	6681.1	9175.4	10385.0	8869.7	8449.5	8190.2	9345.9
60°	3786.4	3484.2	3418.0	3742.1	5539.1	8904.5	12074.2	10848.2	9992.0	9297.5	10505.1
62.5°	2839.5	2622.5	2522.9	2569.3	3832.8	8023.8	13183.5	13347.9	12135.6	10506.4	11637.6
65°	2307.3	2132.0	2043.3	1983.3	2383.7	6204.2	12982.9	15452.0	14639.4	11776.1	12519.0
67.5°	1927.3	1771.8	1730.8	1789.5	1884.3	3599.5	11413.8	16628.8	16684.1	13028.7	13034.1
70°	1599.8	1484.5	1469.5	1636.0	1760.8	2172.2	8244.1	16259.0	16869.0	13968.1	12913.4
72.5°	1236.2	1174.1	1172.1	1433.4	1749.3	1851.6	4909.4	14045.9	14865.2	13667.9	11731.7
75°	857.6	814.6	847.3	1178.2	1709.0	1878.2	2801.9	10940.3	11553.7	11630.8	9397.8
77.5°	590.1	554.0	589.5	852.1	1526.2	1923.2	1960.1	7910.5	7978.7	7799.3	5382.8
80°	410.7	385.5	412.8	603.1	1187.8	1903.4	1668.7	4980.3	4569.6	3480.8	1723.3
82.5°	254.5	247.0	277.0	429.8	836.4	1731.5	1581.4	2570.0	1962.1	960.6	615.4
85°	133.7	122.8	161.0	280.4	523.3	1359.0	1481.8	1172.8	757.3	341.1	247.0
87.5°	39.6	35.5	62.1	113.3	221.7	609.2	848.0	497.3	282.4	100.3	77.1
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°	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9
2.5°	1523.4	1515.9	1415.0	1427.9	1449.8	1455.2	1454.5	1417.7	1378.8	1487.3	1483.9
5°	1940.3	1872.7	1822.3	1811.3	1749.3	1687.2	1709.0	1701.5	1691.9	1741.1	1747.2
7.5°	2240.5	2147.0	2088.3	1937.5	1794.3	1670.1	1709.7	1722.0	1697.4	1786.1	1812.7
10°	2319.6	2245.9	2182.5	1988.7	1909.6	1837.3	1730.1	1608.0	1591.7	1540.5	1546.6
12.5°	2523.6	2513.4	2297.1	2126.5	2023.5	1879.6	1648.3	1500.2	1373.3	1379.5	1342.6
15°	2684.6	2690.1	2430.1	2191.3	1915.0	1695.4	1423.1	1238.9	1108.6	1082.7	1056.1
17.5°	2900.9	2889.9	2441.0	2113.6	1763.6	1441.6	1108.0	925.1	903.3	918.3	895.1
20°	2995.0	2898.8	2371.5	1920.5	1526.8	1095.0	837.1	740.2	782.5	842.6	843.9
22.5°	3079.6	2915.2	2335.3	1764.9	1211.7	796.2	672.0	654.3	704.1	785.3	792.1
25°	3076.2	2990.9	2270.5	1608.0	939.4	621.5	584.0	597.0	656.3	740.9	745.7
27.5°	3231.1	2932.9	2102.0	1402.0	707.5	532.1	541.7	565.6	593.5	674.0	689.7
30°	3229.7	3040.7	2017.4	1151.6	568.3	487.8	512.4	532.8	556.0	629.7	638.6
32.5°	3306.1	2970.5	1966.2	895.8	509.6	476.9	483.0	503.5	536.9	586.7	592.9
35°	3398.2	3050.3	1802.5	711.6	487.8	467.3	472.1	483.7	514.4	560.1	566.3
37.5°	3693.6	3065.3	1737.7	599.7	486.4	463.2	462.6	468.7	503.5	545.1	563.5
40°	3808.9	3202.4	1548.7	560.1	481.7	463.2	453.7	457.1	485.8	539.0	553.3
42.5°	4085.2	3248.1	1408.8	546.5	481.7	455.1	440.0	445.5	478.9	526.0	548.5
45°	4369.7	3312.9	1242.4	543.7	481.0	454.4	425.7	438.0	465.3	504.9	529.4
47.5°	4775.0	3546.3	1075.9	535.6	475.5	457.8	422.3	421.6	445.5	479.6	502.8
50°	5436.1	3910.6	946.9	525.3	476.2	455.1	415.5	405.9	421.6	451.6	474.2
52.5°	6356.4	4531.4	896.5	519.9	470.7	444.1	403.9	388.9	397.7	421.6	443.5
55°	7424.8	5369.9	946.3	519.9	459.8	427.1	387.5	369.8	374.5	390.9	412.1
57.5°	8673.3	6411.6	1187.1	512.4	446.2	406.6	367.7	347.3	348.6	362.9	382.1
60°	9977.0	7575.5	1726.7	506.2	436.6	384.1	344.5	323.4	321.3	335.0	352.0
62.5°	11282.8	8649.4	2294.4	520.5	433.9	365.0	320.0	298.8	298.1	310.4	324.7
65°	12321.2	9383.5	2435.6	578.5	451.6	343.2	294.7	274.9	273.6	283.8	299.5
67.5°	12830.8	9489.9	1850.2	650.9	489.2	322.7	270.2	251.7	250.4	261.3	274.9
70°	12453.5	8762.6	1142.1	658.4	487.1	298.8	244.9	229.2	226.5	238.1	248.3
72.5°	11057.7	7664.9	867.8	582.6	421.6	264.7	219.7	206.0	201.9	212.2	221.7
75°	8875.2	6085.5	695.2	470.1	332.2	223.1	194.4	181.5	176.7	186.3	194.4
77.5°	5170.0	3423.5	508.3	367.0	251.1	182.2	165.8	154.2	148.7	159.0	165.1
80°	1681.0	1140.7	319.3	263.3	183.5	142.6	134.4	126.2	120.8	127.6	129.6
82.5°	603.8	424.4	176.7	161.7	122.1	102.3	101.7	96.9	90.1	92.8	92.8
85°	267.4	193.8	105.1	86.6	73.0	54.6	64.1	60.7	53.9	52.5	50.5
87.5°	75.0	64.1	38.2	29.3	23.9	8.9	20.5	18.4	15.0	13.6	9.6
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)