

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: McGRAW-EDISON

Report Number: P595215

Luminaire Tested: **IST-PA1D-735-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-PA1D-735-U-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7678 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

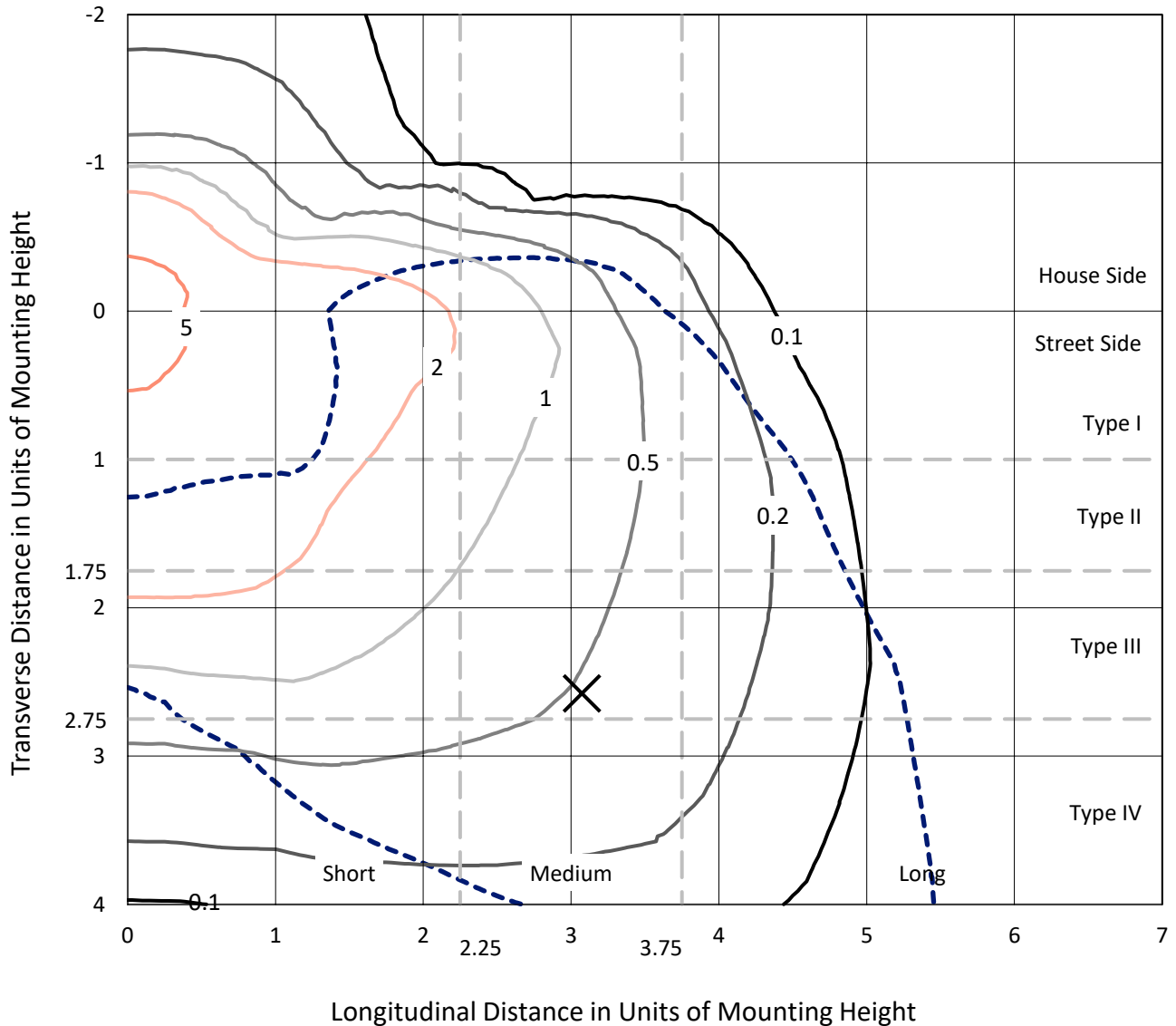
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

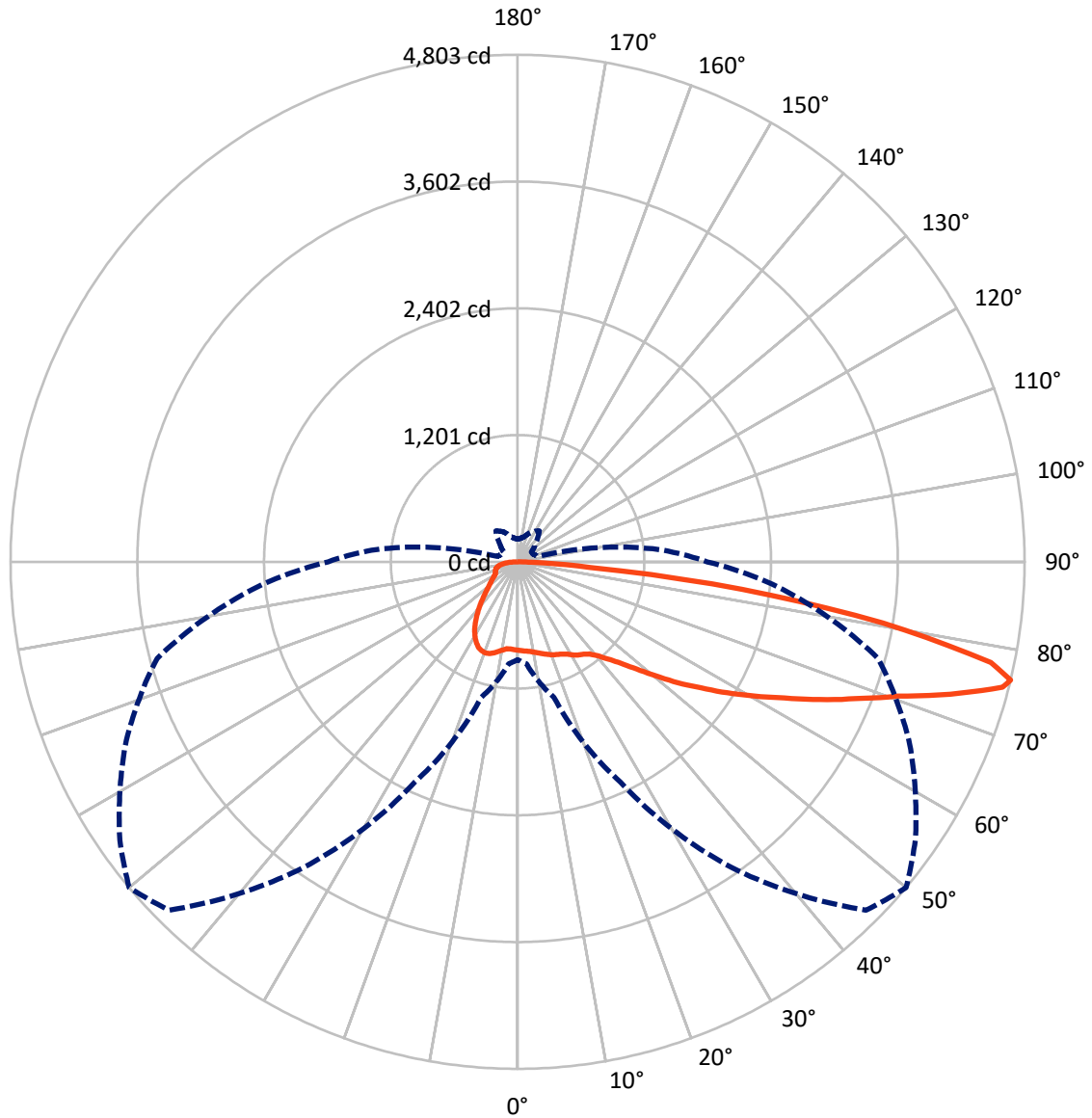
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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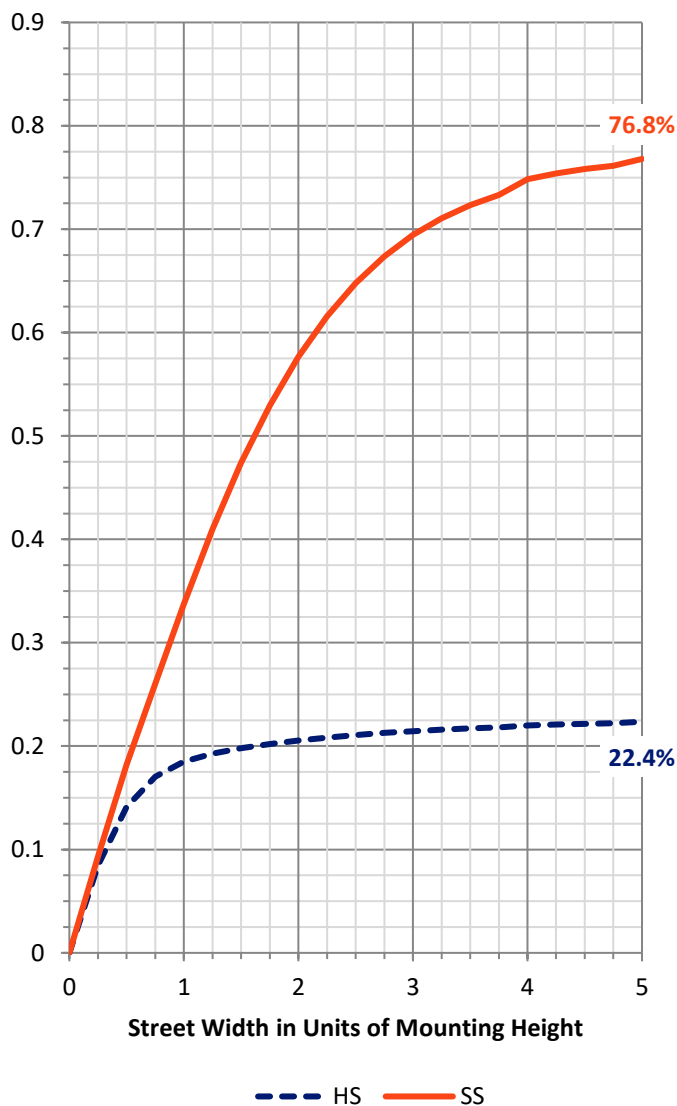
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1756.4	0.0	1756.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	5921.6	0.0	5921.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	7678.0	0.0	7678.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	1.1
10°-20°	255.5	3.3
20°-30°	431.6	5.6
30°-40°	591.6	7.7
40°-50°	871.3	11.3
50°-60°	1370.5	17.9
60°-70°	1972.8	25.7
70°-80°	1793.8	23.4
80°-90°	309.7	4.0
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°	7678.0	100.0
0°-180°	7678.0	100.0

Coefficient of Utilization

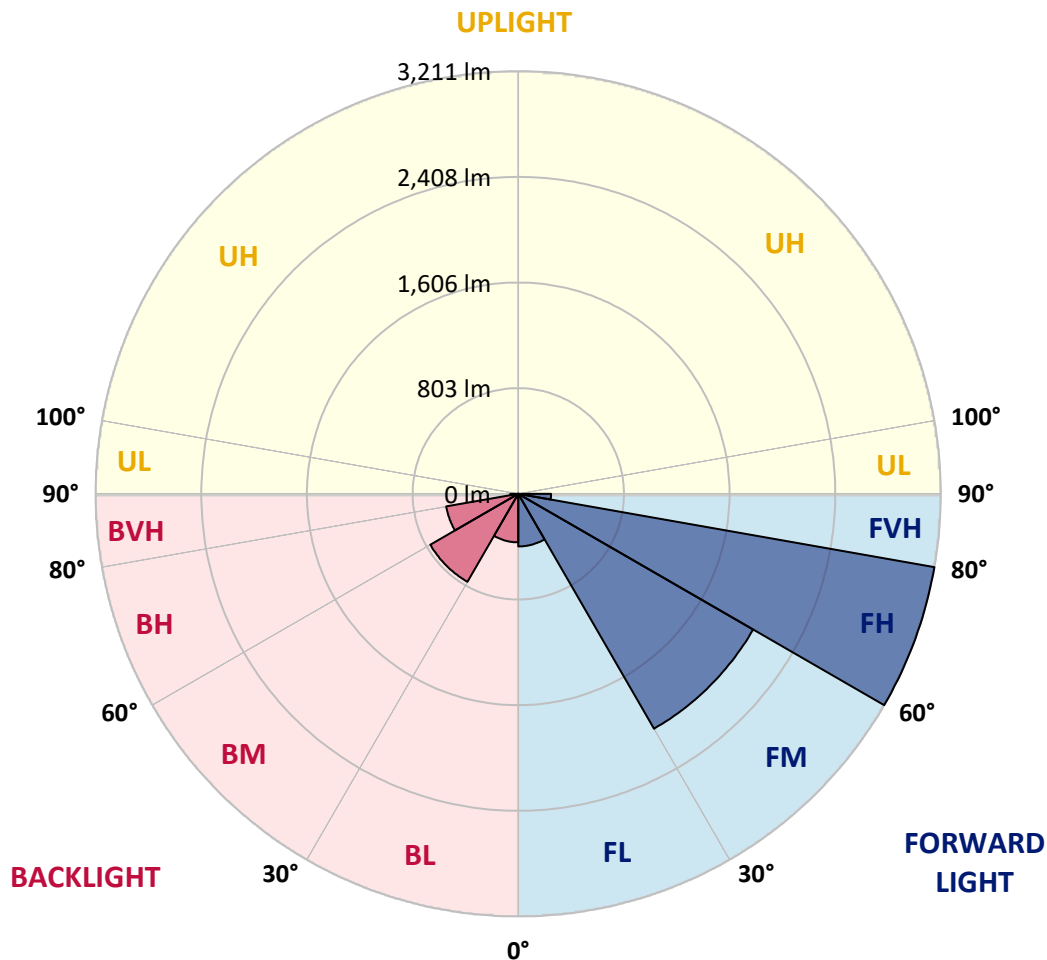


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	399.6	5.2			
FM (30°-60°)	2061.4	26.8			
FH (60°-80°)	3211.3	41.8			G2/5000
FVH (80°-90°)	249.3	3.2			G3/500
BL (0°-30°)	368.7	4.8	B1/500		
BM (30°-60°)	772.0	10.1	B1/1000		
BH (60°-80°)	555.3	7.2	B2/1000		G2/1000
BVH (80°-90°)	60.4	0.8			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	836.9	836.9	836.9	836.9	836.9	836.9	836.9	836.9	836.9	836.9	836.9
2.5°	855.7	855.7	857.6	853.8	853.8	844.4	844.4	842.5	838.8	836.9	833.1
5°	887.7	887.7	882.0	872.6	867.0	855.7	850.0	846.3	838.8	829.4	820.0
7.5°	921.5	917.8	914.0	898.9	887.7	867.0	857.6	851.9	836.9	823.7	818.1
10°	957.2	951.6	942.2	923.4	906.5	882.0	870.7	863.2	846.3	835.0	821.8
12.5°	977.9	977.9	966.6	944.1	921.5	891.4	885.8	876.4	859.5	844.4	831.2
15°	998.6	1000.5	989.2	962.9	936.6	914.0	904.6	898.9	880.1	857.6	840.6
17.5°	1019.3	1017.4	1006.1	976.1	947.8	927.2	921.5	914.0	895.2	874.5	857.6
20°	1034.4	1030.6	1026.8	989.2	961.0	947.8	940.3	934.7	915.9	893.3	870.7
22.5°	1038.1	1041.9	1038.1	993.0	970.4	955.4	953.5	947.8	932.8	912.1	889.5
25°	1040.0	1041.9	1047.5	1004.3	983.6	972.3	968.5	964.8	953.5	936.6	906.5
27.5°	1049.4	1051.3	1051.3	1011.8	1000.5	993.0	989.2	989.2	983.6	962.9	932.8
30°	1051.3	1053.2	1056.9	1030.6	1026.8	1021.2	1023.1	1021.2	1011.8	989.2	955.4
32.5°	1064.4	1066.3	1075.7	1041.9	1045.6	1051.3	1053.2	1051.3	1032.5	1013.7	985.5
35°	1107.7	1105.8	1113.3	1070.1	1066.3	1068.2	1073.8	1072.0	1064.4	1047.5	1028.7
37.5°	1246.9	1246.9	1226.2	1135.9	1107.7	1103.9	1107.7	1117.1	1119.0	1103.9	1088.9
40°	1491.3	1478.2	1466.9	1271.3	1181.0	1158.5	1169.8	1175.4	1190.4	1190.4	1190.4
42.5°	1743.4	1745.2	1741.5	1481.9	1312.7	1256.3	1258.1	1271.3	1303.3	1308.9	1325.9
45°	1967.1	1980.3	2008.5	1726.4	1506.4	1380.4	1367.2	1380.4	1425.5	1463.1	1506.4
47.5°	2142.0	2127.0	2189.1	1982.2	1728.3	1549.6	1515.8	1519.6	1581.6	1641.8	1709.5
50°	2292.5	2296.3	2324.5	2243.6	2008.5	1741.5	1696.3	1688.8	1777.2	1841.1	1955.9
52.5°	2461.8	2450.5	2491.8	2473.0	2281.2	1976.6	1905.1	1882.5	1978.4	2068.7	2192.8
55°	2542.6	2553.9	2638.5	2685.6	2538.9	2187.2	2108.2	2115.7	2217.3	2313.2	2486.2
57.5°	2685.6	2696.8	2794.6	2892.4	2768.3	2411.0	2341.4	2341.4	2456.1	2563.3	2830.4
60°	2881.1	2883.0	2982.7	3152.0	2969.5	2627.3	2582.1	2580.2	2704.4	2828.5	3236.6
62.5°	2967.6	2990.2	3138.8	3358.8	3232.8	2892.4	2839.8	2854.8	2965.8	3110.6	3689.8
65°	2851.0	2899.9	3210.3	3498.0	3467.9	3168.9	3148.2	3168.9	3236.6	3392.7	4169.4
67.5°	2465.5	2531.3	3078.6	3592.0	3656.0	3488.6	3458.5	3454.7	3498.0	3672.9	4472.2
70°	2266.2	2305.7	2730.7	3627.8	3806.4	3812.1	3812.1	3787.6	3782.0	3909.8	4500.4
72.5°	1865.6	1907.0	2303.8	3428.4	3949.3	4244.6	4287.9	4197.6	4058.4	4032.1	4028.3
75°	1329.6	1359.7	1702.0	2696.8	3766.9	4660.2	4746.7	4571.8	4184.4	3765.0	2937.6
76°	927.2	970.4	1329.6	2303.8	3537.5	4667.7	4803.2	4600.0	4099.8	3535.6	2420.4
77.5°	470.2	485.2	769.2	1547.8	2960.1	4453.4	4585.0	4357.4	3731.2	2856.7	1536.5
80°	178.7	184.3	274.6	564.2	1624.9	3458.5	3509.3	3202.7	2469.3	1220.5	552.9
82.5°	94.0	97.8	154.2	278.3	667.6	1901.3	2145.8	1786.6	968.5	366.7	161.7
85°	47.0	50.8	90.3	169.3	331.0	594.3	688.3	650.7	321.6	139.2	60.2
87.5°	18.8	22.6	45.1	75.2	133.5	116.6	129.8	167.4	103.4	65.8	20.7
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°	836.9	836.9	836.9	836.9	836.9	836.9	836.9	836.9	836.9	836.9	836.9
2.5°	833.1	831.2	833.1	831.2	833.1	833.1	835.0	831.2	831.2	835.0	829.4
5°	820.0	818.1	820.0	823.7	825.6	829.4	836.9	835.0	838.8	842.5	844.4
7.5°	814.3	812.4	818.1	820.0	825.6	833.1	844.4	851.9	855.7	863.2	859.5
10°	820.0	820.0	827.5	833.1	842.5	851.9	861.3	868.9	878.3	883.9	882.0
12.5°	829.4	827.5	840.6	848.2	861.3	870.7	878.3	882.0	889.5	897.1	895.2
15°	838.8	840.6	859.5	874.5	889.5	893.3	895.2	891.4	895.2	898.9	898.9
17.5°	857.6	859.5	880.1	897.1	910.2	906.5	897.1	887.7	887.7	889.5	891.4
20°	872.6	876.4	900.8	915.9	923.4	908.3	893.3	882.0	876.4	878.3	876.4
22.5°	889.5	897.1	921.5	929.0	917.8	898.9	880.1	865.1	865.1	867.0	867.0
25°	910.2	914.0	930.9	927.2	906.5	878.3	863.2	857.6	855.7	857.6	859.5
27.5°	929.0	930.9	940.3	914.0	874.5	844.4	838.8	840.6	842.5	844.4	846.3
30°	953.5	957.2	947.8	895.2	835.0	801.2	801.2	812.4	816.2	821.8	820.0
32.5°	983.6	987.3	959.1	870.7	784.2	750.4	752.3	769.2	780.5	784.2	786.1
35°	1034.4	1026.8	966.6	836.9	729.7	688.3	690.2	710.9	725.9	731.6	727.8
37.5°	1096.4	1094.5	977.9	793.6	662.0	624.4	626.3	635.7	650.7	652.6	654.5
40°	1199.8	1184.8	996.7	737.2	594.3	558.5	554.8	560.4	558.5	562.3	564.2
42.5°	1348.4	1308.9	1021.2	673.3	534.1	496.5	492.7	483.3	472.0	460.8	455.1
45°	1523.3	1461.3	1051.3	607.4	472.0	438.2	428.8	417.5	394.9	370.5	363.0
47.5°	1749.0	1630.5	1085.1	541.6	413.7	387.4	379.9	363.0	336.6	308.4	302.8
50°	1980.3	1829.9	1119.0	487.1	366.7	351.7	344.2	327.2	293.4	267.1	261.4
52.5°	2249.2	2027.3	1154.7	438.2	325.4	325.4	319.7	293.4	261.4	237.0	233.2
55°	2559.6	2230.4	1211.1	391.2	295.3	302.8	295.3	268.9	238.8	221.9	220.0
57.5°	2930.0	2488.1	1282.6	340.4	268.9	274.6	274.6	255.8	235.1	223.8	221.9
60°	3302.4	2749.5	1327.7	302.8	248.2	253.9	265.2	255.8	242.6	237.0	235.1
62.5°	3659.7	3016.5	1250.6	270.8	227.6	244.5	272.7	274.6	261.4	263.3	263.3
65°	3926.8	3219.7	1011.8	242.6	214.4	250.1	295.3	297.1	274.6	268.9	267.1
67.5°	4018.9	3276.1	680.8	223.8	206.9	253.9	321.6	314.1	274.6	263.3	257.6
70°	3844.0	3069.2	442.0	206.9	195.6	250.1	342.3	323.5	272.7	255.8	248.2
72.5°	3223.4	2617.9	295.3	191.8	184.3	246.4	355.4	323.5	267.1	242.6	235.1
75°	2238.0	1788.5	220.0	173.0	167.4	240.7	359.2	317.8	253.9	227.6	221.9
76°	1796.0	1340.9	199.3	165.5	159.9	237.0	357.3	312.2	244.5	220.0	214.4
77.5°	1134.0	771.1	167.4	152.3	148.6	229.4	349.8	299.0	231.3	206.9	201.2
80°	396.8	282.1	127.9	124.1	126.0	212.5	329.1	272.7	205.0	182.4	174.9
82.5°	158.0	129.8	95.9	95.9	99.7	182.4	297.1	240.7	178.7	150.5	139.2
85°	62.1	56.4	67.7	67.7	71.5	148.6	248.2	188.1	122.2	94.0	90.3
87.5°	18.8	26.3	30.1	32.0	33.9	75.2	141.0	82.7	54.5	39.5	32.0
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)