

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: P595341

Luminaire Tested: **IST-PA1E-830-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595341
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-PA1E-830-U-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8068 lumens
Efficiency: N/A
Efficacy: 99.0 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

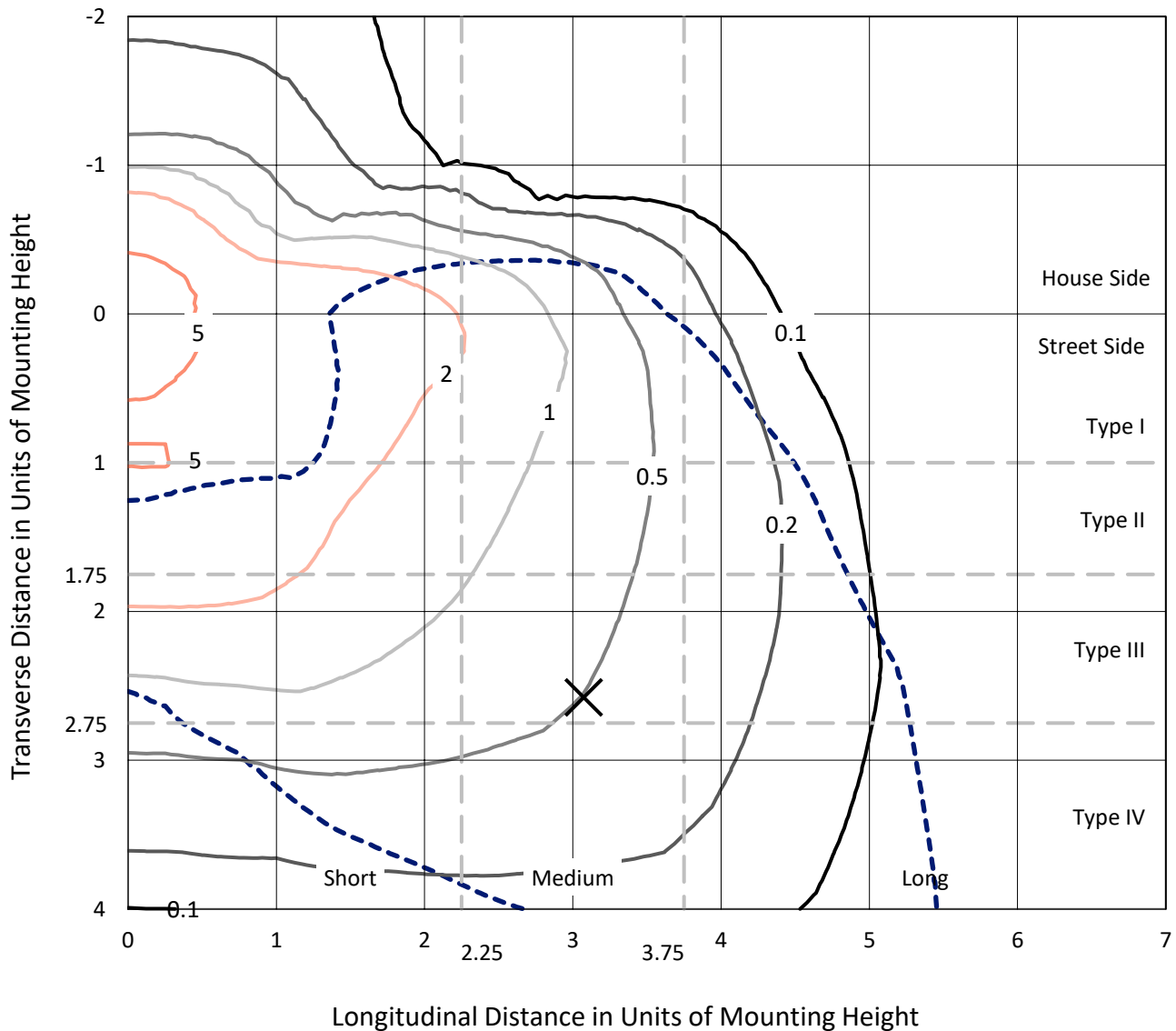
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

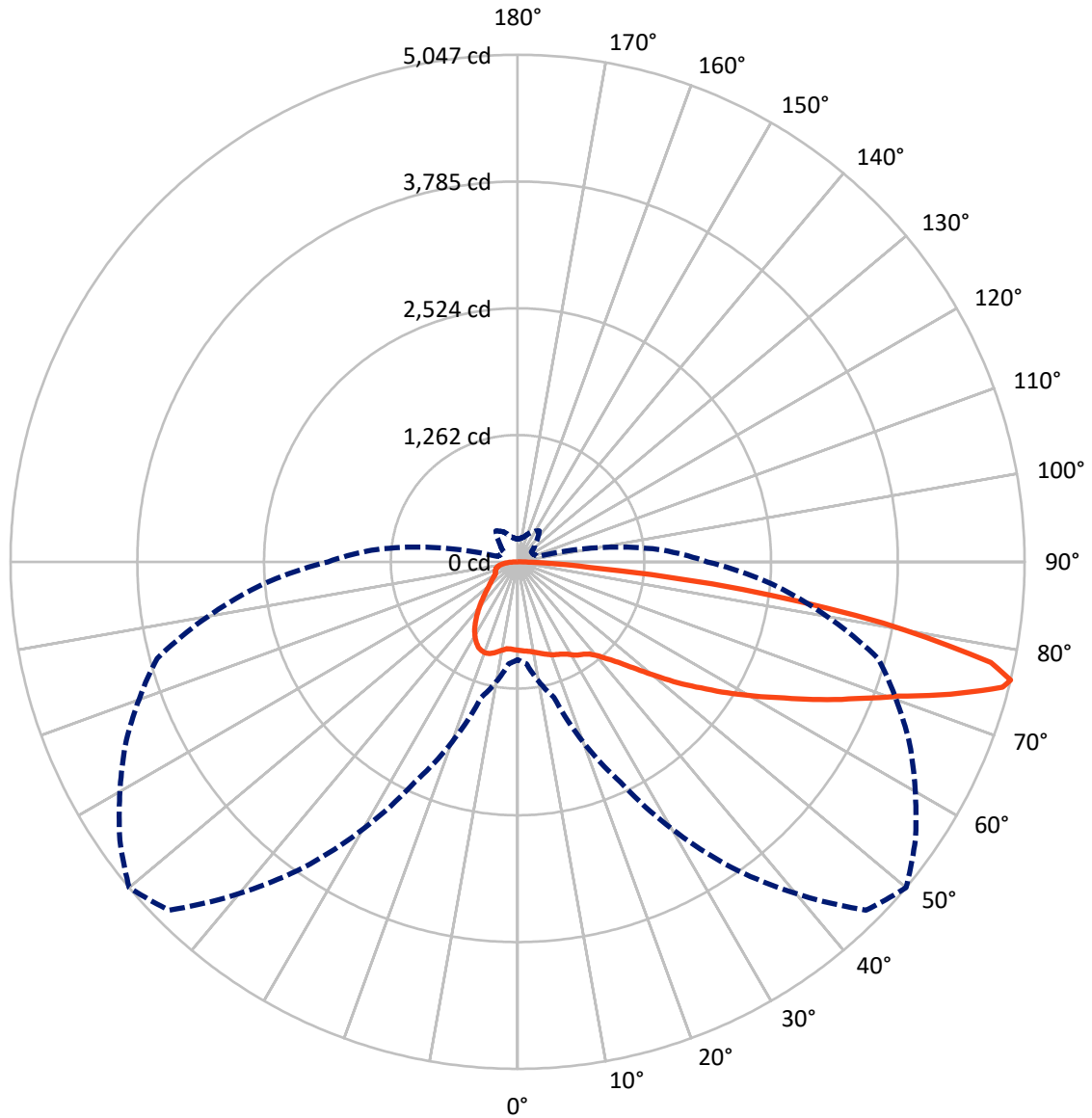
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.6 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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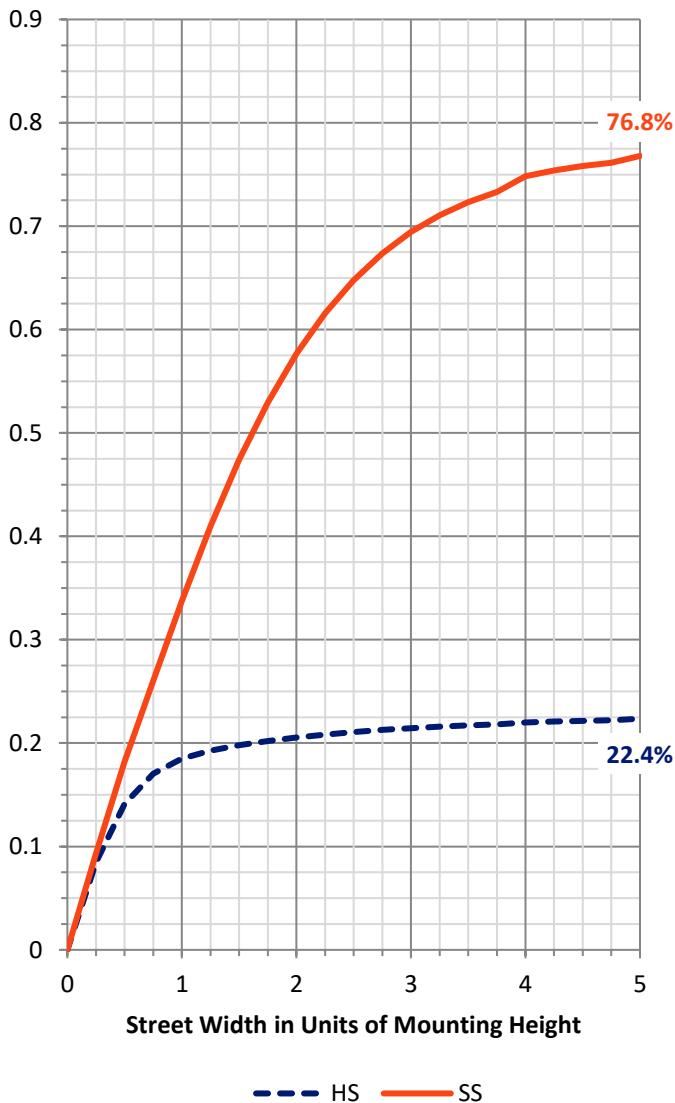
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1845.6	0.0	1845.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	6222.4	0.0	6222.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	8068.0	0.0	8068.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	1.1
10°-20°	268.5	3.3
20°-30°	453.5	5.6
30°-40°	621.6	7.7
40°-50°	915.5	11.3
50°-60°	1440.2	17.9
60°-70°	2073.0	25.7
70°-80°	1884.9	23.4
80°-90°	325.4	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°	8068.0	100.0
0°-180°	8068.0	100.0

Coefficient of Utilization

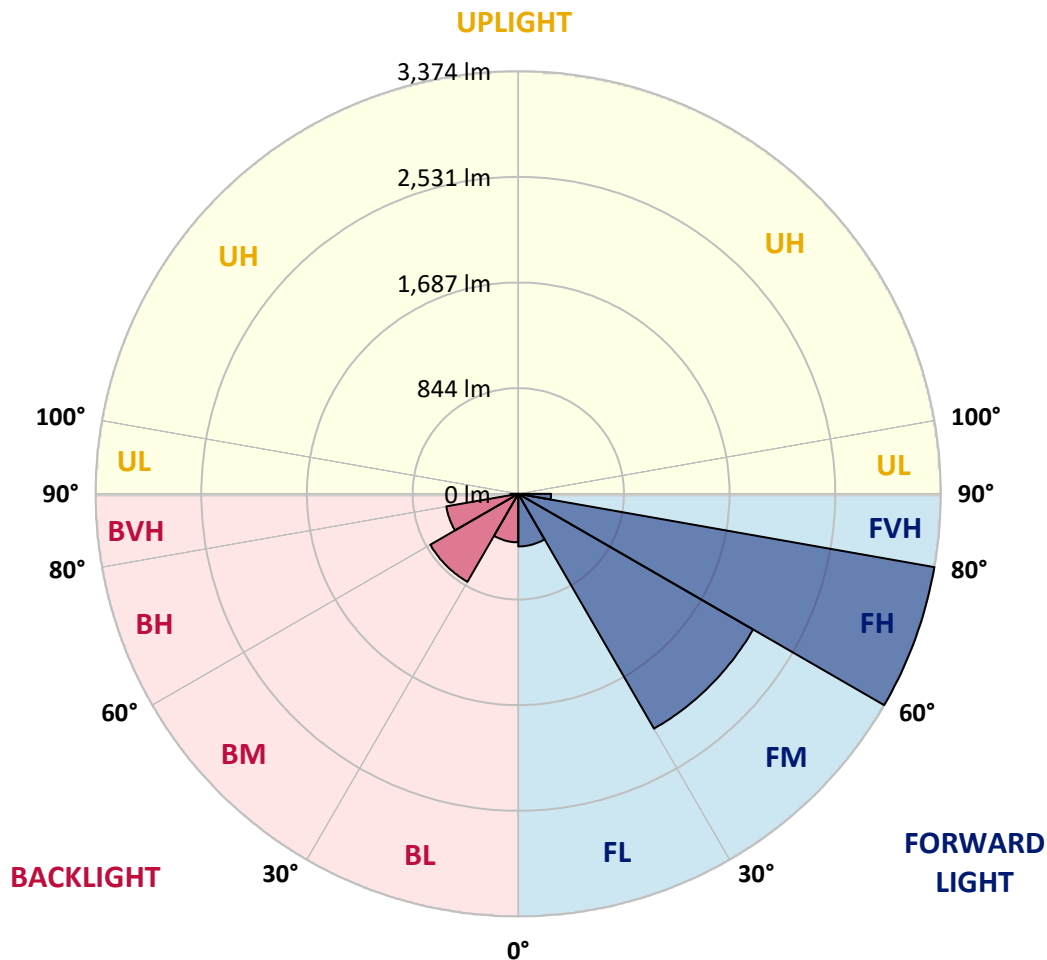


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	419.9	5.2			
FM (30°-60°)	2166.1	26.8			
FH (60°-80°)	3374.4	41.8			G2/5000
FVH (80°-90°)	261.9	3.2			G3/500
BL (0°-30°)	387.5	4.8	B1/500		
BM (30°-60°)	811.2	10.1	B1/1000		
BH (60°-80°)	583.5	7.2	B2/1000		G2/1000
BVH (80°-90°)	63.5	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°	879.4	879.4	879.4	879.4	879.4	879.4	879.4	879.4	879.4	879.4	879.4
2.5°	899.2	899.2	901.1	897.2	897.2	887.3	887.3	885.3	881.4	879.4	875.4
5°	932.8	932.8	926.8	916.9	911.0	899.2	893.2	889.3	881.4	871.5	861.6
7.5°	968.3	964.4	960.4	944.6	932.8	911.0	901.1	895.2	879.4	865.6	859.6
10°	1005.9	999.9	990.1	970.3	952.5	926.8	915.0	907.1	889.3	877.4	863.6
12.5°	1027.6	1027.6	1015.7	992.0	968.3	936.7	930.8	920.9	903.1	887.3	873.5
15°	1049.3	1051.3	1039.5	1011.8	984.1	960.4	950.5	944.6	924.8	901.1	883.3
17.5°	1071.1	1069.1	1057.2	1025.6	996.0	974.2	968.3	960.4	940.7	918.9	901.1
20°	1086.9	1082.9	1079.0	1039.5	1009.8	996.0	988.1	982.2	962.4	938.7	915.0
22.5°	1090.8	1094.8	1090.8	1043.4	1019.7	1003.9	1001.9	996.0	980.2	958.4	934.7
25°	1092.8	1094.8	1100.7	1055.3	1033.5	1021.7	1017.7	1013.8	1001.9	984.1	952.5
27.5°	1102.7	1104.7	1104.7	1063.2	1051.3	1043.4	1039.5	1039.5	1033.5	1011.8	980.2
30°	1104.7	1106.7	1110.6	1082.9	1079.0	1073.1	1075.0	1073.1	1063.2	1039.5	1003.9
32.5°	1118.5	1120.5	1130.4	1094.8	1098.7	1104.7	1106.7	1104.7	1084.9	1065.2	1035.5
35°	1164.0	1162.0	1169.9	1124.4	1120.5	1122.5	1128.4	1126.4	1118.5	1100.7	1081.0
37.5°	1310.2	1310.2	1288.5	1193.6	1164.0	1160.0	1164.0	1173.8	1175.8	1160.0	1144.2
40°	1567.1	1553.3	1541.4	1335.9	1241.0	1217.3	1229.2	1235.1	1250.9	1250.9	1250.9
42.5°	1831.9	1833.9	1829.9	1557.2	1379.4	1320.1	1322.1	1335.9	1369.5	1375.4	1393.2
45°	2067.1	2080.9	2110.5	1814.1	1582.9	1450.5	1436.7	1450.5	1497.9	1537.5	1582.9
47.5°	2250.9	2235.0	2300.3	2082.9	1816.1	1628.4	1592.8	1596.7	1662.0	1725.2	1796.3
50°	2408.9	2412.9	2442.5	2357.6	2110.5	1829.9	1782.5	1774.6	1867.5	1934.7	2055.2
52.5°	2586.8	2574.9	2618.4	2598.7	2397.1	2076.9	2001.9	1978.1	2078.9	2173.8	2304.2
55°	2671.8	2683.6	2772.6	2822.0	2667.8	2298.3	2215.3	2223.2	2329.9	2430.7	2612.5
57.5°	2822.0	2833.8	2936.6	3039.3	2908.9	2533.4	2460.3	2460.3	2580.9	2693.5	2974.1
60°	3027.5	3029.5	3134.2	3312.1	3120.4	2760.7	2713.3	2711.3	2841.7	2972.2	3401.0
62.5°	3118.4	3142.1	3298.2	3529.4	3397.0	3039.3	2984.0	2999.8	3116.4	3268.6	3877.2
65°	2995.9	3047.2	3373.3	3675.7	3644.0	3329.8	3308.1	3329.8	3401.0	3565.0	4381.2
67.5°	2590.8	2659.9	3235.0	3774.5	3841.7	3665.8	3634.2	3630.2	3675.7	3859.5	4699.3
70°	2381.3	2422.8	2869.4	3812.0	3999.8	4005.7	4005.7	3980.0	3974.1	4108.4	4729.0
72.5°	1960.4	2003.8	2420.8	3602.5	4149.9	4460.2	4505.7	4410.8	4264.6	4236.9	4232.9
75°	1397.1	1428.8	1788.4	2833.8	3958.3	4896.9	4987.8	4804.1	4397.0	3956.3	3086.8
76°	974.2	1019.7	1397.1	2420.8	3717.2	4904.8	5047.1	4833.7	4308.0	3715.2	2543.3
77.5°	494.0	509.9	808.3	1626.4	3110.5	4679.6	4817.9	4578.8	3920.7	3001.8	1614.5
80°	187.7	193.7	288.5	592.8	1707.4	3634.2	3687.5	3365.4	2594.7	1282.5	581.0
82.5°	98.8	102.8	162.0	292.5	701.5	1997.9	2254.8	1877.4	1017.7	385.4	170.0
85°	49.4	53.4	94.9	177.9	347.8	624.5	723.3	683.8	337.9	146.2	63.2
87.5°	19.8	23.7	47.4	79.0	140.3	122.5	136.4	175.9	108.7	69.2	21.7
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°	879.4	879.4	879.4	879.4	879.4	879.4	879.4	879.4	879.4	879.4	879.4
2.5°	875.4	873.5	875.4	873.5	875.4	875.4	877.4	873.5	873.5	877.4	871.5
5°	861.6	859.6	861.6	865.6	867.5	871.5	879.4	877.4	881.4	885.3	887.3
7.5°	855.7	853.7	859.6	861.6	867.5	875.4	887.3	895.2	899.2	907.1	903.1
10°	861.6	861.6	869.5	875.4	885.3	895.2	905.1	913.0	922.9	928.8	926.8
12.5°	871.5	869.5	883.3	891.3	905.1	915.0	922.9	926.8	934.7	942.6	940.7
15°	881.4	883.3	903.1	918.9	934.7	938.7	940.7	936.7	940.7	944.6	944.6
17.5°	901.1	903.1	924.8	942.6	956.5	952.5	942.6	932.8	932.8	934.7	936.7
20°	916.9	920.9	946.6	962.4	970.3	954.5	938.7	926.8	920.9	922.9	920.9
22.5°	934.7	942.6	968.3	976.2	964.4	944.6	924.8	909.0	909.0	911.0	911.0
25°	956.5	960.4	978.2	974.2	952.5	922.9	907.1	901.1	899.2	901.1	903.1
27.5°	976.2	978.2	988.1	960.4	918.9	887.3	881.4	883.3	885.3	887.3	889.3
30°	1001.9	1005.9	996.0	940.7	877.4	841.8	841.8	853.7	857.7	863.6	861.6
32.5°	1033.5	1037.5	1007.8	915.0	824.1	788.5	790.5	808.3	820.1	824.1	826.0
35°	1086.9	1079.0	1015.7	879.4	766.8	723.3	725.3	747.0	762.8	768.7	764.8
37.5°	1152.1	1150.1	1027.6	833.9	695.6	656.1	658.1	667.9	683.8	685.7	687.7
40°	1260.8	1245.0	1047.4	774.7	624.5	586.9	583.0	588.9	586.9	590.9	592.8
42.5°	1416.9	1375.4	1073.1	707.5	561.2	521.7	517.8	507.9	496.0	484.2	478.2
45°	1600.7	1535.5	1104.7	638.3	496.0	460.4	450.6	438.7	415.0	389.3	381.4
47.5°	1837.8	1713.3	1140.2	569.1	434.8	407.1	399.2	381.4	353.7	324.1	318.2
50°	2080.9	1922.8	1175.8	511.8	385.4	369.5	361.6	343.9	308.3	280.6	274.7
52.5°	2363.5	2130.3	1213.4	460.4	341.9	341.9	335.9	308.3	274.7	249.0	245.0
55°	2689.6	2343.7	1272.7	411.0	310.3	318.2	310.3	282.6	251.0	233.2	231.2
57.5°	3078.9	2614.5	1347.7	357.7	282.6	288.5	288.5	268.8	247.0	235.2	233.2
60°	3470.1	2889.2	1395.2	318.2	260.9	266.8	278.6	268.8	254.9	249.0	247.0
62.5°	3845.6	3169.8	1314.2	284.6	239.1	256.9	286.5	288.5	274.7	276.7	276.7
65°	4126.2	3383.2	1063.2	254.9	225.3	262.8	310.3	312.2	288.5	282.6	280.6
67.5°	4223.1	3442.5	715.4	235.2	217.4	266.8	337.9	330.0	288.5	276.7	270.7
70°	4039.3	3225.1	464.4	217.4	205.5	262.8	359.7	339.9	286.5	268.8	260.9
72.5°	3387.1	2750.8	310.3	201.6	193.7	258.9	373.5	339.9	280.6	254.9	247.0
75°	2351.6	1879.3	231.2	181.8	175.9	252.9	377.4	334.0	266.8	239.1	233.2
76°	1887.2	1409.0	209.5	173.9	168.0	249.0	375.5	328.0	256.9	231.2	225.3
77.5°	1191.6	810.2	175.9	160.1	156.1	241.1	367.6	314.2	243.1	217.4	211.4
80°	417.0	296.4	134.4	130.4	132.4	223.3	345.8	286.5	215.4	191.7	183.8
82.5°	166.0	136.4	100.8	100.8	104.7	191.7	312.2	252.9	187.7	158.1	146.2
85°	65.2	59.3	71.1	71.1	75.1	156.1	260.9	197.6	128.5	98.8	94.9
87.5°	19.8	27.7	31.6	33.6	35.6	79.0	148.2	87.0	57.3	41.5	33.6
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)