

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: P595195

Luminaire Tested: **IST-PA1D-727-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1D-727-U-T3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6887 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

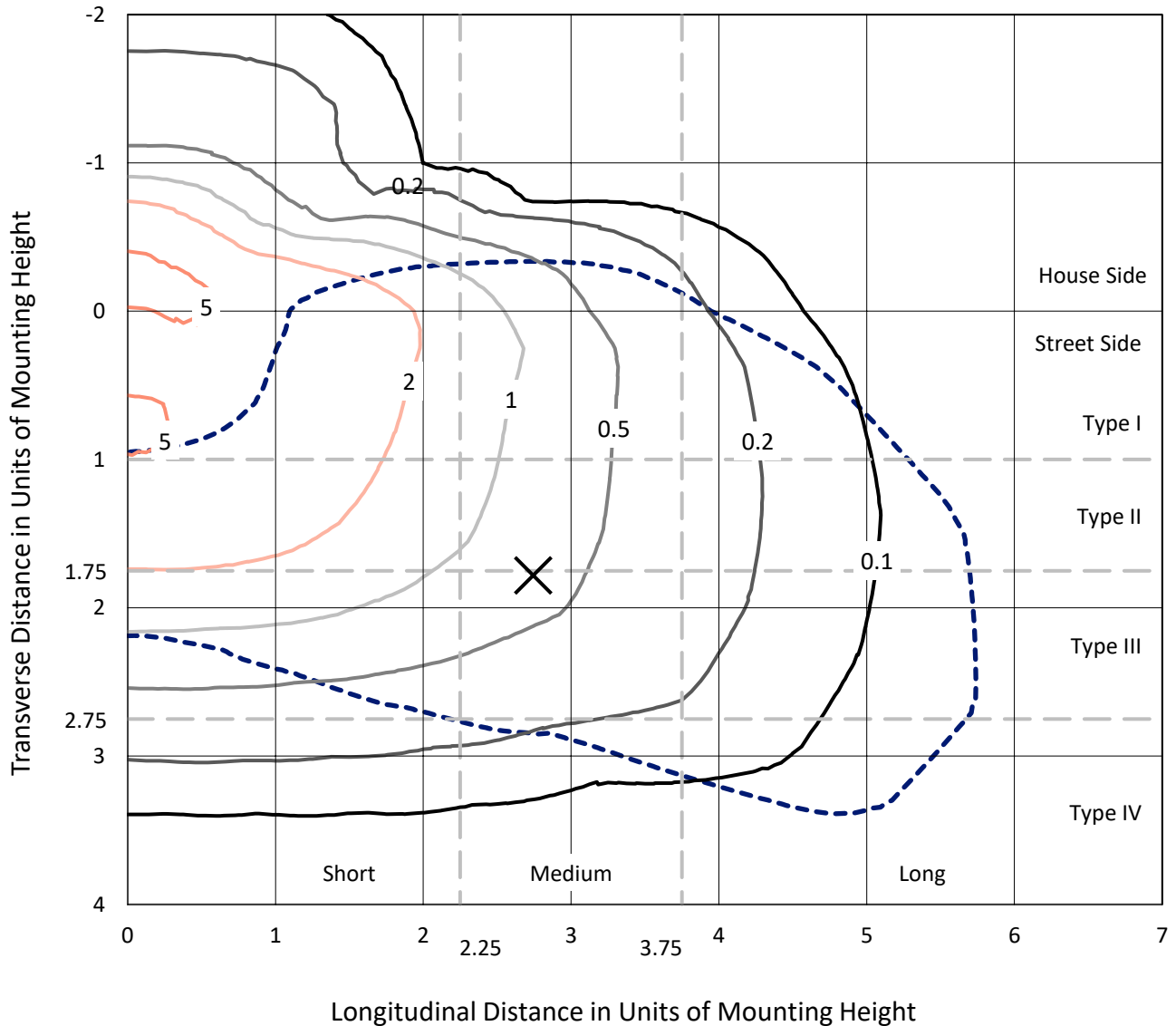
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

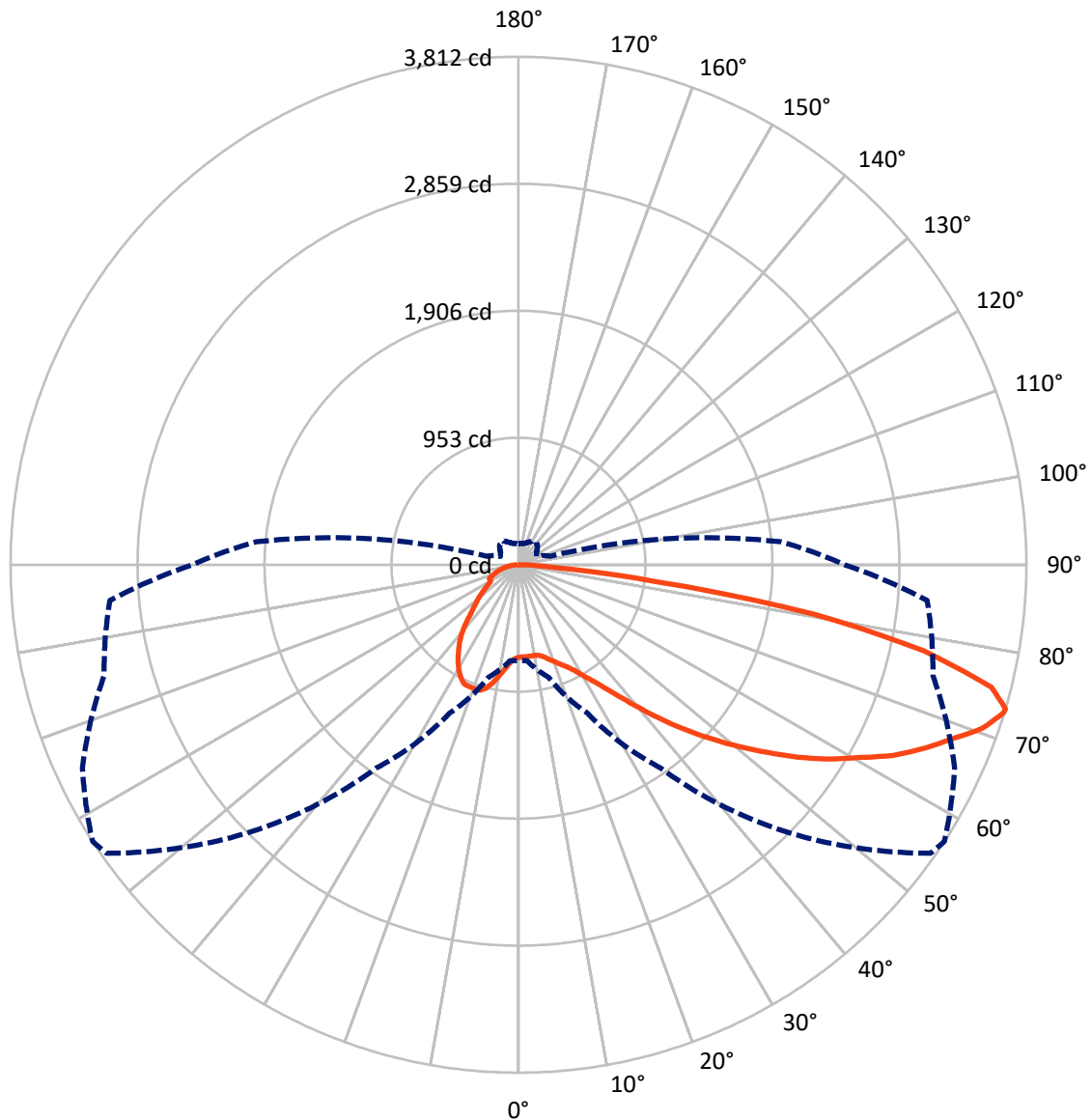
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P595195
CATALOG NUMBER: IST-PA1D-727-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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 CATALOG NUMBER: IST-PA1D-727-U-T3

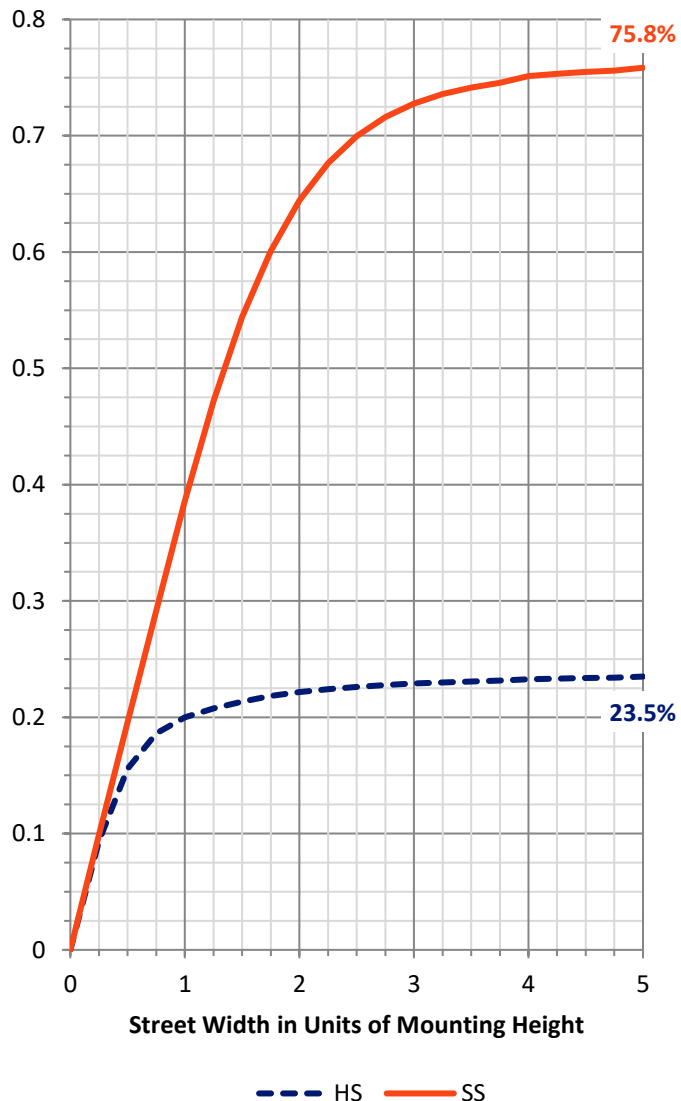
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1643.0	0.0	1643.0
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	5244.0	0.0	5244.0
	% Fixture	76.1	0.0	76.1
Total	Lumens	6887.0	0.0	6887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	1.0
10°-20°	227.8	3.3
20°-30°	420.6	6.1
30°-40°	649.5	9.4
40°-50°	977.6	14.2
50°-60°	1430.8	20.8
60°-70°	1689.7	24.5
70°-80°	1209.7	17.6
80°-90°	212.0	3.1
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°	6887.0	100.0
0°-180°	6887.0	100.0

Coefficient of Utilization

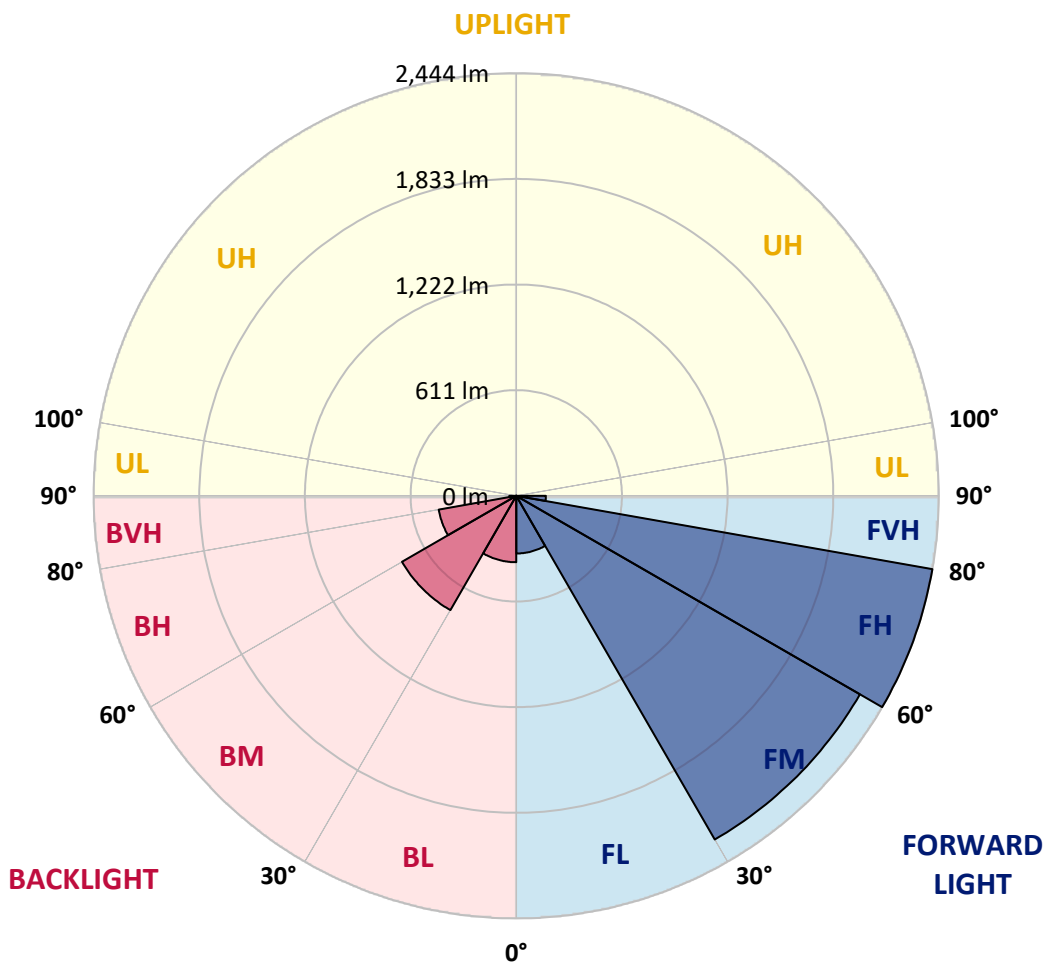


REPORT NUMBER: P595195
 CATALOG NUMBER: IST-PA1D-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	333.7	4.8			
FM	(30°-60°)	2294.9	33.3			
FH	(60°-80°)	2443.9	35.5			G2/5000
FVH	(80°-90°)	171.5	2.5			G2/225
BL	(0°-30°)	384.0	5.6	B1/500		
BM	(30°-60°)	763.0	11.1	B1/1000		
BH	(60°-80°)	455.5	6.6	B1/500		G1/500
BVH	(80°-90°)	40.5	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





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 CATALOG NUMBER: IST-PA1D-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	693.9	693.9	693.9	693.9	693.9	693.9	693.9	693.9	693.9	693.9	693.9
2.5°	685.4	688.8	687.1	688.8	693.9	690.5	690.5	692.2	693.9	692.2	695.6
5°	656.7	658.4	661.8	668.5	680.4	683.7	692.2	692.2	695.6	698.9	704.0
7.5°	609.5	612.8	619.6	626.3	646.6	666.9	688.8	692.2	704.0	712.4	715.8
10°	601.0	604.4	606.1	616.2	636.5	656.7	683.7	690.5	712.4	725.9	741.1
12.5°	592.6	596.0	601.0	614.5	639.8	661.8	690.5	697.2	724.3	751.3	769.8
15°	599.3	601.0	606.1	619.6	644.9	675.3	712.4	717.5	747.9	781.7	810.4
17.5°	616.2	617.9	616.2	628.0	651.7	687.1	737.8	746.2	783.3	817.1	845.8
20°	655.0	656.7	650.0	650.0	666.9	702.3	764.8	776.6	822.2	859.3	888.0
22.5°	739.5	736.1	719.2	697.2	697.2	725.9	795.2	812.0	869.4	899.8	925.2
25°	859.3	859.3	832.3	791.8	764.8	761.4	830.6	849.2	916.7	953.9	969.1
27.5°	1004.5	1006.2	962.3	908.3	855.9	830.6	881.3	899.8	975.8	1014.6	1019.7
30°	1132.8	1134.5	1090.6	1040.0	975.8	920.1	948.8	969.1	1056.8	1087.2	1070.3
32.5°	1261.1	1262.8	1232.4	1163.2	1095.7	1026.5	1034.9	1046.7	1136.2	1164.9	1137.9
35°	1372.5	1377.6	1347.2	1294.9	1224.0	1161.5	1146.3	1148.0	1229.0	1247.6	1212.2
37.5°	1485.7	1485.7	1467.1	1418.1	1357.3	1288.1	1267.9	1272.9	1345.5	1364.1	1313.5
40°	1629.2	1635.9	1625.8	1565.0	1495.8	1438.4	1418.1	1424.9	1504.2	1494.1	1440.1
42.5°	1803.0	1818.2	1801.4	1735.5	1661.2	1597.1	1597.1	1597.1	1664.6	1666.3	1585.3
45°	2025.9	2025.9	2009.0	1951.6	1853.7	1789.5	1767.6	1772.7	1831.7	1838.5	1744.0
47.5°	2211.6	2228.5	2209.9	2167.7	2090.0	2029.3	1960.1	1951.6	2000.6	2000.6	1919.5
50°	2361.9	2392.2	2377.0	2395.6	2339.9	2309.5	2167.7	2144.1	2161.0	2177.8	2088.4
52.5°	2486.8	2510.4	2505.4	2559.4	2586.4	2603.3	2378.7	2341.6	2355.1	2353.4	2272.4
55°	2495.2	2503.7	2579.6	2701.2	2807.5	2886.9	2591.5	2550.9	2537.4	2530.7	2468.2
57.5°	2446.3	2451.3	2603.3	2746.8	2978.1	3069.2	2792.4	2751.8	2733.3	2709.6	2684.3
60°	2328.1	2353.4	2552.6	2773.8	3079.4	3211.0	2979.8	2937.5	2924.0	2873.4	2930.8
62.5°	2177.8	2189.7	2388.9	2718.1	3092.9	3271.8	3177.3	3152.0	3109.7	3037.2	3150.3
65°	1965.1	1963.4	2139.0	2554.3	3023.6	3302.2	3344.4	3330.9	3278.6	3153.6	3346.1
67.5°	1614.0	1652.8	1825.0	2263.9	2856.5	3332.6	3514.9	3498.0	3415.3	3258.3	3439.0
70°	1230.7	1254.4	1450.2	1828.4	2523.9	3249.9	3682.1	3687.1	3536.9	3280.3	3398.4
72.5°	785.0	825.6	980.9	1332.0	2020.8	2942.6	3781.7	3805.3	3604.4	3249.9	3146.9
73°	719.2	722.6	874.5	1232.4	1863.8	2832.9	3774.9	3812.1	3611.2	3219.5	3077.7
75°	428.8	447.4	538.5	818.8	1330.3	2275.8	3592.6	3666.9	3575.7	3084.4	2697.8
77.5°	200.9	214.4	265.1	432.2	724.3	1369.2	3020.3	3108.1	3168.8	2699.5	2056.3
80°	106.4	108.0	130.0	217.8	388.3	563.9	2105.2	2250.4	2336.5	2032.6	1382.7
82.5°	89.5	89.5	101.3	140.1	248.2	219.5	867.8	1033.2	1266.2	1001.1	543.6
85°	72.6	74.3	101.3	104.7	177.3	113.1	207.7	260.0	491.3	442.3	60.8
87.5°	23.6	27.0	57.4	74.3	94.5	43.9	52.3	57.4	57.4	84.4	20.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P595195
 CATALOG NUMBER: IST-PA1D-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	693.9	693.9	693.9	693.9	693.9	693.9	693.9	693.9	693.9	693.9	693.9
2.5°	697.2	697.2	698.9	700.6	704.0	704.0	707.4	709.1	712.4	714.1	709.1
5°	704.0	707.4	710.8	720.9	732.7	742.8	753.0	761.4	769.8	774.9	773.2
7.5°	722.6	727.6	741.1	759.7	783.3	798.5	813.7	828.9	835.7	839.1	839.1
10°	747.9	758.0	783.3	813.7	840.7	864.4	876.2	886.3	889.7	893.1	889.7
12.5°	783.3	796.9	835.7	874.5	904.9	916.7	915.0	901.5	883.0	879.6	876.2
15°	828.9	845.8	889.7	935.3	958.9	943.7	904.9	891.4	888.0	898.1	894.8
17.5°	867.8	888.0	942.0	989.3	984.2	931.9	920.1	926.8	923.5	925.2	925.2
20°	904.9	933.6	991.0	1023.1	979.2	945.4	935.3	926.8	916.7	920.1	916.7
22.5°	952.2	972.4	1038.3	1040.0	972.4	945.4	923.5	906.6	903.2	904.9	906.6
25°	989.3	1021.4	1078.8	1028.1	972.4	918.4	888.0	884.6	886.3	896.5	893.1
27.5°	1040.0	1072.0	1110.9	1021.4	931.9	874.5	862.7	861.0	849.2	852.6	852.6
30°	1087.2	1126.1	1127.7	1021.4	881.3	837.4	820.5	790.1	764.8	769.8	768.2
32.5°	1151.4	1185.1	1131.1	980.9	823.9	788.4	742.8	695.6	683.7	690.5	692.2
35°	1225.7	1252.7	1134.5	913.3	766.5	719.2	636.5	609.5	607.8	612.8	617.9
37.5°	1323.6	1338.8	1159.8	835.7	710.8	611.1	547.0	540.2	525.0	514.9	516.6
40°	1443.4	1424.9	1208.8	766.5	644.9	513.2	486.2	467.6	438.9	410.2	415.3
42.5°	1576.8	1524.5	1224.0	710.8	555.4	452.4	427.1	398.4	363.0	332.6	330.9
45°	1720.3	1635.9	1210.5	666.9	466.0	406.9	379.9	346.1	303.9	278.6	278.6
47.5°	1890.8	1742.3	1168.3	631.4	403.5	366.3	332.6	298.8	270.1	246.5	246.5
50°	2078.2	1865.5	1137.9	568.9	359.6	327.5	293.8	266.7	244.8	226.2	226.2
52.5°	2275.8	1982.0	1112.6	477.8	320.8	292.1	268.4	246.5	227.9	204.3	200.9
55°	2476.7	2093.4	1124.4	390.0	285.3	266.7	251.5	229.6	222.8	217.8	214.4
57.5°	2686.0	2215.0	1153.1	319.1	254.9	253.2	246.5	261.7	276.9	266.7	261.7
60°	2849.8	2309.5	1156.4	268.4	236.4	266.7	300.5	305.6	265.1	241.4	239.7
62.5°	2979.8	2399.0	1077.1	233.0	241.4	314.0	320.8	270.1	229.6	219.5	219.5
65°	3047.3	2431.1	866.1	212.7	251.5	300.5	290.4	243.1	214.4	212.7	212.7
67.5°	3013.5	2405.7	606.1	190.8	222.8	260.0	260.0	222.8	197.5	206.0	202.6
70°	2851.4	2280.8	400.1	172.2	195.8	234.7	241.4	207.7	184.0	189.1	184.0
72.5°	2513.8	2058.0	263.4	151.9	168.8	207.7	224.5	190.8	168.8	167.1	162.1
73°	2448.0	1973.6	248.2	148.6	163.8	200.9	219.5	187.4	165.4	160.4	157.0
75°	2076.5	1646.0	187.4	133.4	145.2	180.6	204.3	175.6	151.9	145.2	141.8
77.5°	1512.7	1141.3	140.1	113.1	121.6	157.0	180.6	160.4	135.1	126.6	124.9
80°	943.7	621.3	104.7	91.2	96.2	131.7	158.7	143.5	116.5	106.4	104.7
82.5°	369.7	202.6	72.6	67.5	70.9	99.6	133.4	124.9	97.9	89.5	84.4
85°	60.8	69.2	47.3	45.6	45.6	70.9	101.3	96.2	65.8	57.4	50.6
87.5°	16.9	32.1	18.6	16.9	16.9	30.4	55.7	43.9	27.0	21.9	20.3
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)