

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: P595274

Luminaire Tested: **IST-PA1E-727-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1E-727-U-T2U
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8574 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

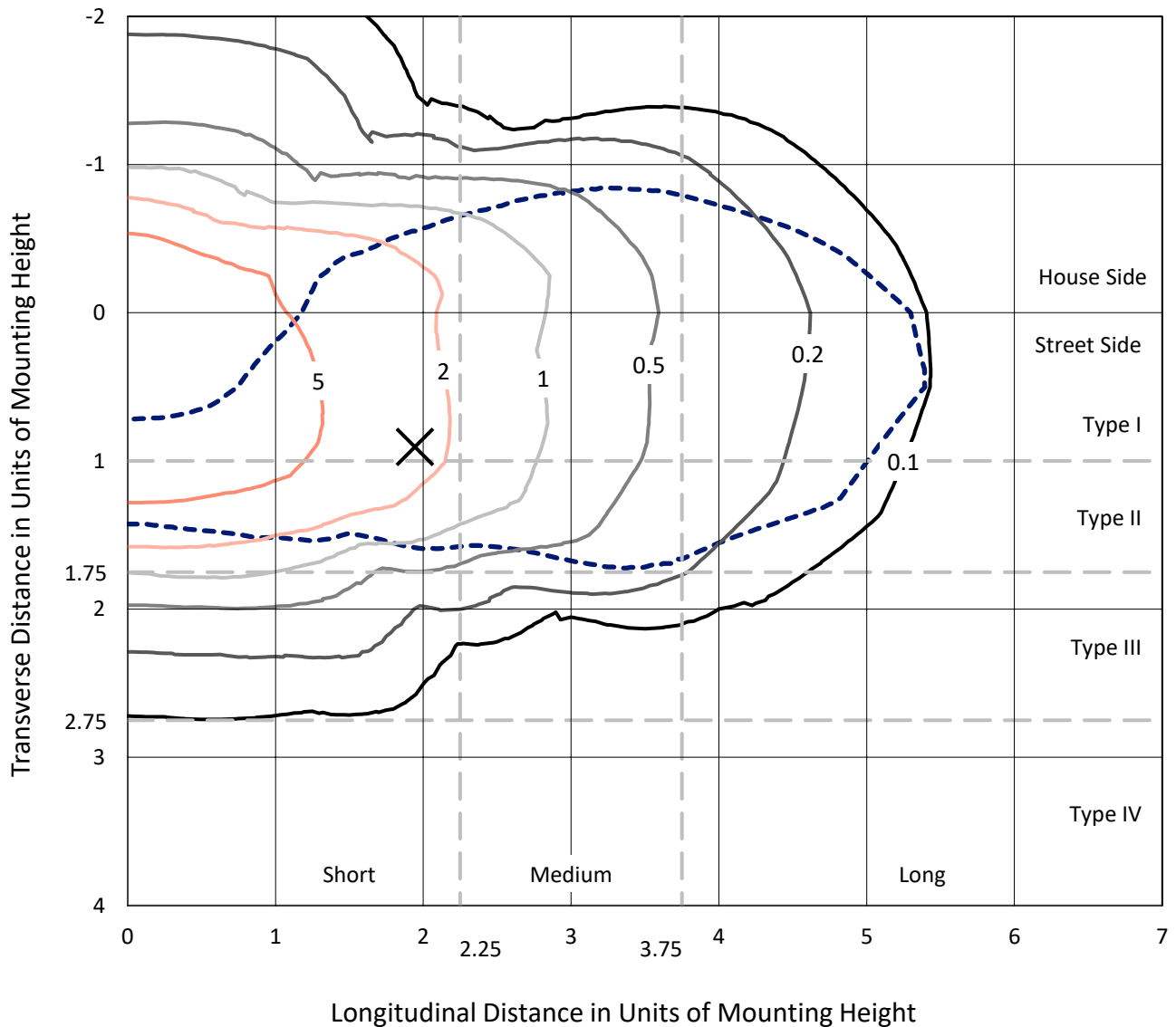
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

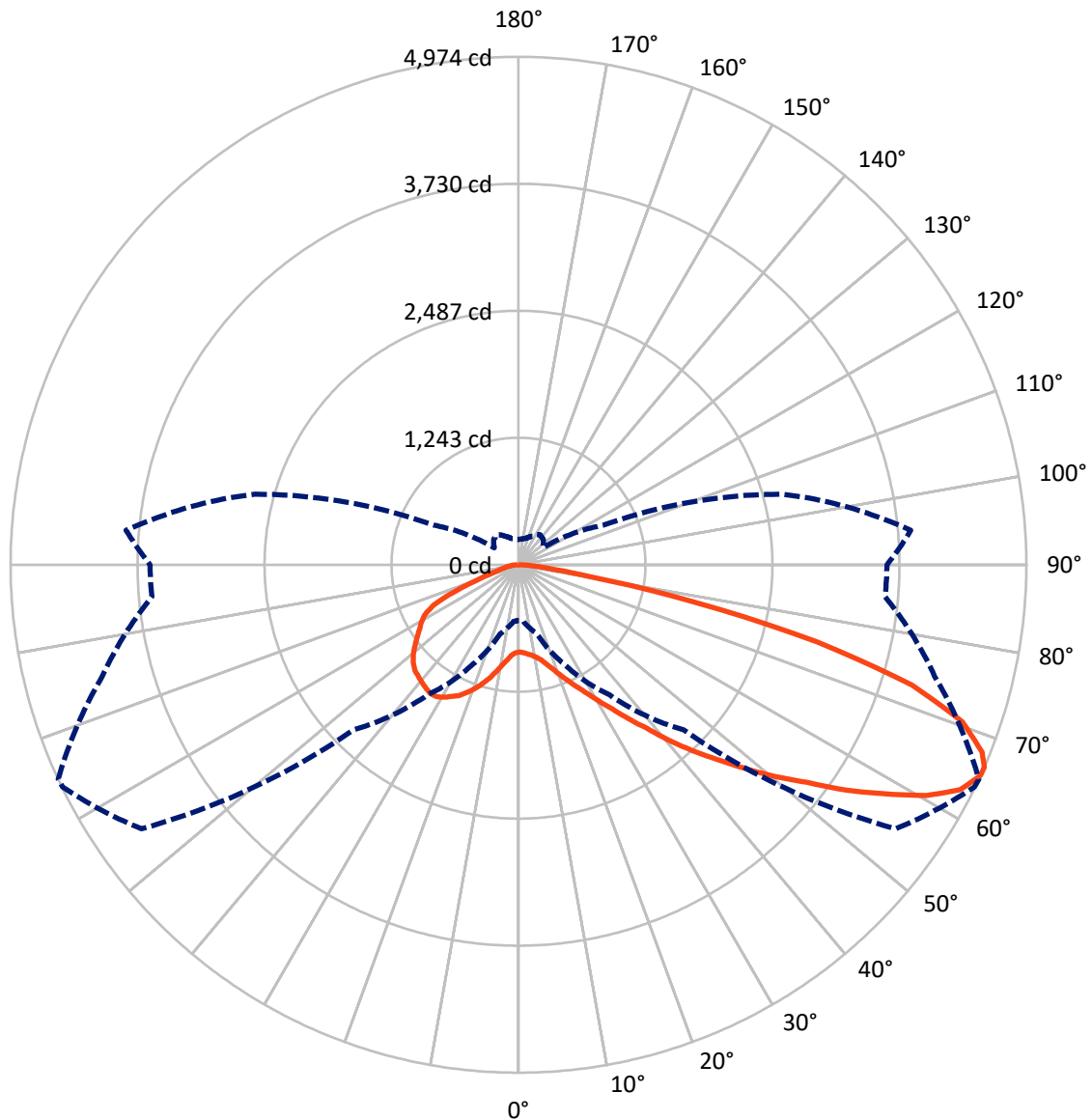
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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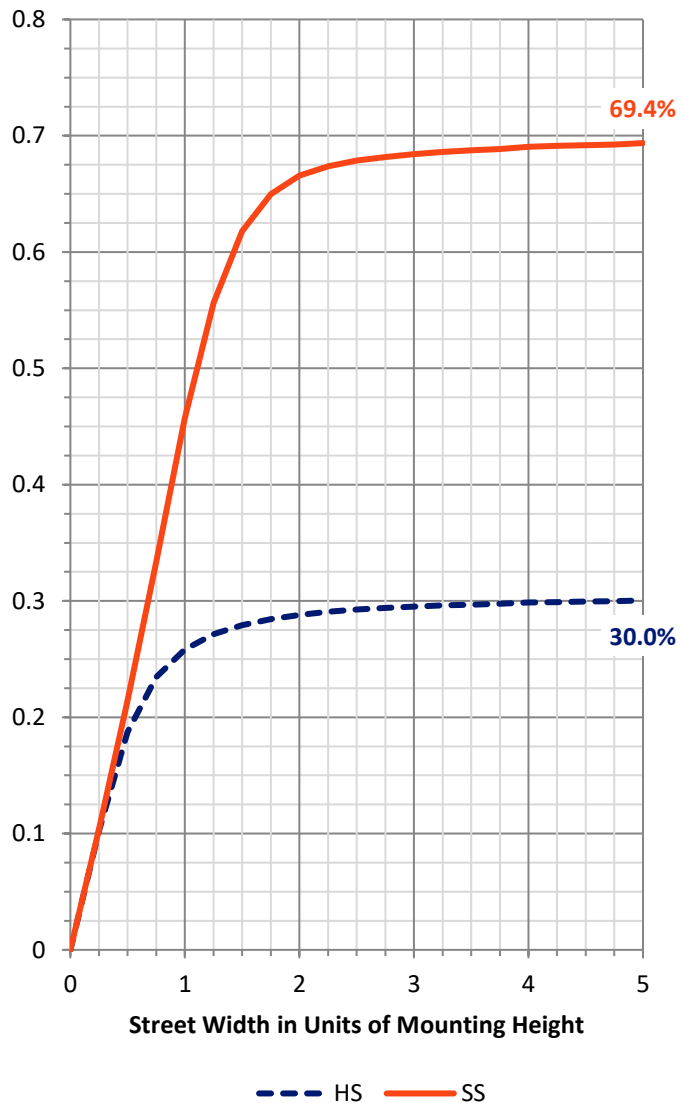
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2603.4	0.0	2603.4
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	5970.6	0.0	5970.6
	% Fixture	69.6	0.0	69.6
Total	Lumens	8574.0	0.0	8574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	1.0
10°-20°	303.9	3.5
20°-30°	595.1	6.9
30°-40°	972.4	11.3
40°-50°	1543.5	18.0
50°-60°	1985.2	23.2
60°-70°	1790.3	20.9
70°-80°	1110.4	13.0
80°-90°	186.1	2.2
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°	8574.0	100.0
0°-180°	8574.0	100.0

Coefficient of Utilization



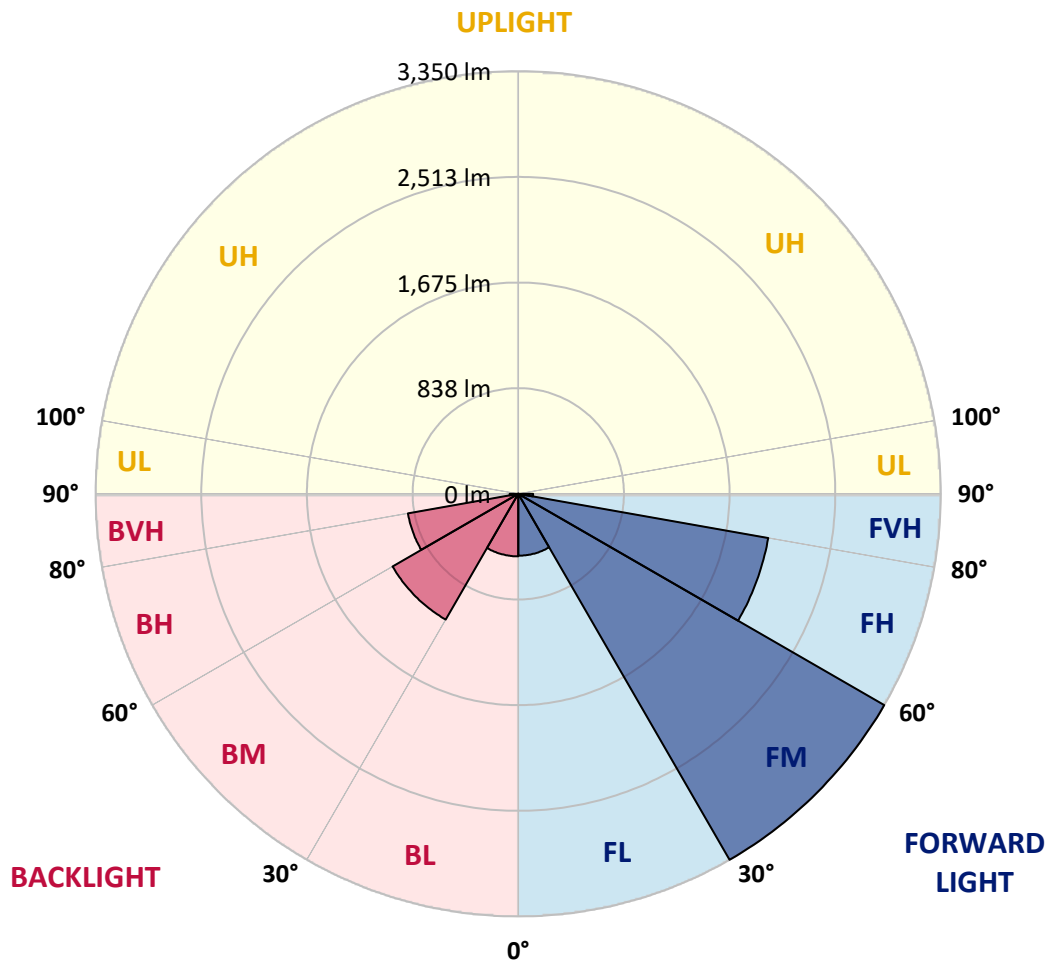
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	490.3	5.7			
FM (30°-60°)	3350.2	39.1			
FH (60°-80°)	2012.3	23.5			G2/5000
FVH (80°-90°)	117.7	1.4			G2/225
BL (0°-30°)	495.9	5.8	B1/500		
BM (30°-60°)	1150.9	13.4	B2/2500		
BH (60°-80°)	888.3	10.4	B2/1000		G2/1000
BVH (80°-90°)	68.4	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6
2.5°	856.7	858.8	860.9	856.7	860.9	862.9	858.8	858.8	860.9	856.7	856.7
5°	850.5	852.5	856.7	858.8	867.1	871.3	873.3	873.3	875.4	873.3	875.4
7.5°	833.8	833.8	842.1	846.3	858.8	873.3	881.7	894.1	894.1	896.2	902.4
10°	850.5	850.5	856.7	862.9	873.3	885.8	898.3	912.8	917.0	931.6	939.9
12.5°	875.4	879.6	887.9	896.2	908.7	923.2	933.6	948.2	950.3	964.8	981.5
15°	917.0	921.2	925.3	935.7	952.4	971.1	989.8	1000.2	1004.3	1012.7	1025.1
17.5°	979.4	983.5	985.6	991.9	1004.3	1029.3	1056.3	1064.6	1068.8	1068.8	1079.2
20°	1085.4	1083.4	1079.2	1066.7	1066.7	1089.6	1127.0	1141.6	1145.7	1137.4	1131.2
22.5°	1208.1	1206.0	1189.4	1174.8	1164.5	1168.6	1206.0	1231.0	1228.9	1212.3	1187.3
25°	1368.2	1372.4	1345.4	1307.9	1276.7	1268.4	1291.3	1316.2	1320.4	1289.2	1247.6
27.5°	1559.5	1553.3	1538.7	1478.4	1418.1	1380.7	1393.2	1420.2	1422.3	1389.0	1322.5
30°	1784.1	1773.7	1736.3	1673.9	1580.3	1528.3	1517.9	1540.8	1547.1	1490.9	1395.3
32.5°	2033.6	2023.2	1975.4	1879.8	1777.9	1690.5	1657.3	1688.5	1684.3	1619.8	1486.8
35°	2335.1	2333.1	2245.7	2127.2	1998.3	1881.8	1836.1	1836.1	1848.6	1752.9	1603.2
37.5°	2738.5	2755.2	2626.3	2441.2	2260.3	2104.3	2027.4	2023.2	2025.3	1921.3	1734.2
40°	3102.4	3096.2	3021.3	2848.7	2584.7	2385.0	2270.7	2245.7	2252.0	2118.9	1904.7
42.5°	3312.4	3318.7	3300.0	3225.1	2994.3	2742.7	2547.2	2480.7	2482.8	2316.4	2066.9
45°	3443.4	3449.7	3447.6	3485.0	3393.5	3156.5	2877.9	2724.0	2715.7	2541.0	2258.2
47.5°	3518.3	3522.5	3549.5	3626.4	3701.3	3647.2	3243.8	2994.3	2977.7	2751.0	2449.5
50°	3435.1	3437.2	3545.3	3728.3	3911.3	4075.6	3618.1	3262.5	3258.4	2983.9	2636.6
52.5°	2998.5	3035.9	3275.0	3657.6	4067.3	4379.2	4050.6	3578.6	3543.3	3204.3	2823.8
55°	2447.4	2464.1	2738.5	3225.1	4038.1	4566.3	4377.1	3919.6	3894.7	3449.7	3006.8
57.5°	1910.9	1927.6	2254.0	2659.5	3593.2	4555.9	4607.9	4287.7	4231.5	3663.9	3189.8
60°	1233.1	1285.1	1663.5	2162.6	2909.0	4239.8	4724.3	4641.2	4589.2	3876.0	3345.7
62.5°	838.0	846.3	1083.4	1603.2	2177.1	3445.5	4716.0	4859.5	4851.2	4088.1	3501.7
65°	544.8	557.3	700.7	1085.4	1557.5	2287.3	4508.1	4965.6	4973.9	4219.1	3603.6
66°	461.6	469.9	580.1	912.8	1364.1	1813.2	4325.1	4957.2	4973.9	4279.4	3634.7
67.5°	401.3	407.6	463.7	673.7	1114.5	1303.8	3848.9	4847.0	4894.9	4335.5	3674.3
70°	345.2	353.5	405.5	459.5	796.4	761.1	2437.0	4564.2	4612.1	4362.5	3699.2
72.5°	284.9	291.1	343.1	415.9	578.1	511.5	1075.0	3907.1	4027.8	4262.7	3659.7
75°	224.6	228.7	276.6	347.3	442.9	399.2	467.9	2865.4	3017.2	3757.4	3505.8
77.5°	174.7	176.7	214.2	270.3	405.5	309.8	289.0	1395.3	1765.4	2902.8	3087.9
80°	120.6	124.8	158.0	203.8	297.4	245.4	193.4	544.8	692.4	1927.6	2341.4
82.5°	79.0	81.1	108.1	153.9	197.5	235.0	126.8	264.1	291.1	887.9	1014.7
85°	54.1	54.1	76.9	95.7	135.2	156.0	83.2	139.3	151.8	336.9	122.7
87.5°	27.0	27.0	37.4	49.9	64.5	60.3	49.9	49.9	49.9	110.2	35.3
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°	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6
2.5°	858.8	858.8	860.9	862.9	865.0	865.0	867.1	867.1	865.0	867.1	869.2
5°	877.5	879.6	883.7	890.0	900.4	910.8	921.2	927.4	933.6	935.7	931.6
7.5°	906.6	910.8	925.3	942.0	958.6	983.5	998.1	1006.4	1010.6	1014.7	1010.6
10°	944.0	952.4	973.1	1002.3	1031.4	1062.6	1079.2	1091.7	1093.8	1097.9	1093.8
12.5°	987.7	1002.3	1033.5	1075.0	1110.4	1141.6	1154.1	1145.7	1127.0	1118.7	1116.6
15°	1039.7	1054.2	1097.9	1149.9	1191.5	1206.0	1187.3	1160.3	1139.5	1137.4	1135.3
17.5°	1085.4	1106.2	1166.5	1220.6	1260.1	1245.5	1195.6	1179.0	1172.8	1181.1	1179.0
20°	1143.7	1160.3	1220.6	1287.1	1307.9	1251.8	1216.4	1206.0	1199.8	1199.8	1195.6
22.5°	1191.5	1204.0	1276.7	1349.5	1337.0	1255.9	1231.0	1210.2	1189.4	1187.3	1181.1
25°	1247.6	1251.8	1328.7	1407.7	1341.2	1260.1	1216.4	1181.1	1160.3	1154.1	1156.1
27.5°	1299.6	1310.0	1376.5	1447.2	1330.8	1237.2	1166.5	1120.8	1089.6	1087.5	1087.5
30°	1366.2	1366.2	1426.5	1490.9	1307.9	1179.0	1085.4	1018.9	993.9	991.9	987.7
32.5°	1441.0	1428.5	1486.8	1522.1	1258.0	1100.0	975.2	900.4	860.9	852.5	846.3
35°	1545.0	1517.9	1559.5	1528.3	1208.1	987.7	835.9	750.7	721.5	709.1	709.1
37.5°	1665.6	1626.1	1669.7	1509.6	1131.2	856.7	690.4	625.9	594.7	576.0	582.2
40°	1807.0	1757.1	1782.0	1488.8	1048.0	711.1	569.7	530.2	492.8	467.9	467.9
42.5°	1973.3	1890.2	1908.9	1468.0	929.5	584.3	492.8	465.8	436.7	411.7	418.0
45°	2133.4	2052.3	2033.6	1447.2	804.7	499.1	461.6	442.9	415.9	386.8	386.8
47.5°	2318.5	2214.5	2143.8	1409.8	682.0	472.0	469.9	442.9	390.9	349.3	345.2
50°	2493.2	2397.5	2243.6	1353.7	613.4	494.9	467.9	403.4	353.5	326.5	324.4
52.5°	2678.2	2578.4	2324.7	1285.1	578.1	484.5	430.4	370.1	332.7	305.7	299.4
55°	2861.2	2809.2	2397.5	1218.5	521.9	451.2	399.2	349.3	309.8	284.9	280.7
57.5°	3069.2	3048.4	2459.9	1152.0	434.6	409.6	376.4	334.8	297.4	278.6	276.6
60°	3250.1	3322.8	2534.8	1102.1	370.1	378.4	366.0	332.7	305.7	284.9	284.9
62.5°	3441.4	3586.9	2601.3	1037.6	322.3	359.7	368.0	330.6	295.3	276.6	276.6
65°	3607.7	3857.2	2669.9	919.1	289.0	345.2	361.8	307.7	266.2	251.6	247.4
66°	3678.4	3934.2	2690.7	846.3	276.6	334.8	351.4	295.3	253.7	241.2	239.1
67.5°	3761.6	4054.8	2715.7	690.4	257.8	311.9	328.5	276.6	232.9	224.6	220.4
70°	3878.0	4079.7	2701.1	451.2	224.6	268.2	293.2	247.4	207.9	201.7	195.5
72.5°	3890.5	3909.2	2555.6	284.9	195.5	230.8	257.8	222.5	183.0	176.7	172.6
75°	3684.7	3464.2	2162.6	203.8	172.6	203.8	226.7	193.4	151.8	143.5	139.3
77.5°	3146.1	2748.9	1555.4	151.8	149.7	174.7	189.2	168.4	126.8	120.6	118.5
80°	2208.3	1865.2	779.8	114.4	118.5	145.6	158.0	141.4	106.0	97.7	93.6
82.5°	894.1	792.2	268.2	85.3	89.4	110.2	135.2	116.4	81.1	70.7	62.4
85°	101.9	172.6	116.4	58.2	60.3	74.9	91.5	70.7	47.8	39.5	33.3
87.5°	20.8	37.4	41.6	22.9	20.8	29.1	41.6	25.0	16.6	6.2	8.3
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)