

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: P595326

Luminaire Tested: **IST-PA1E-827-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1E-827-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7593 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

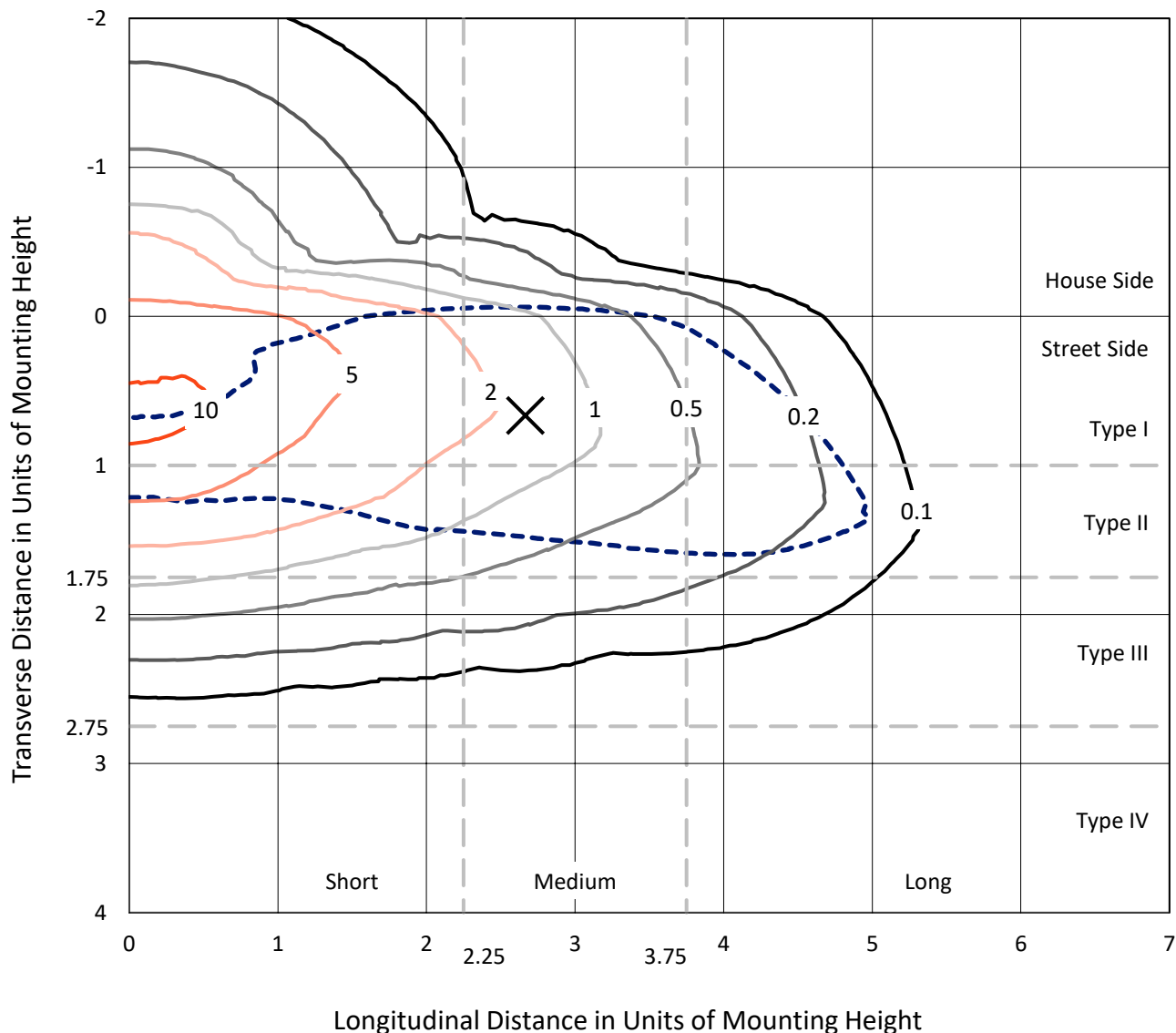
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

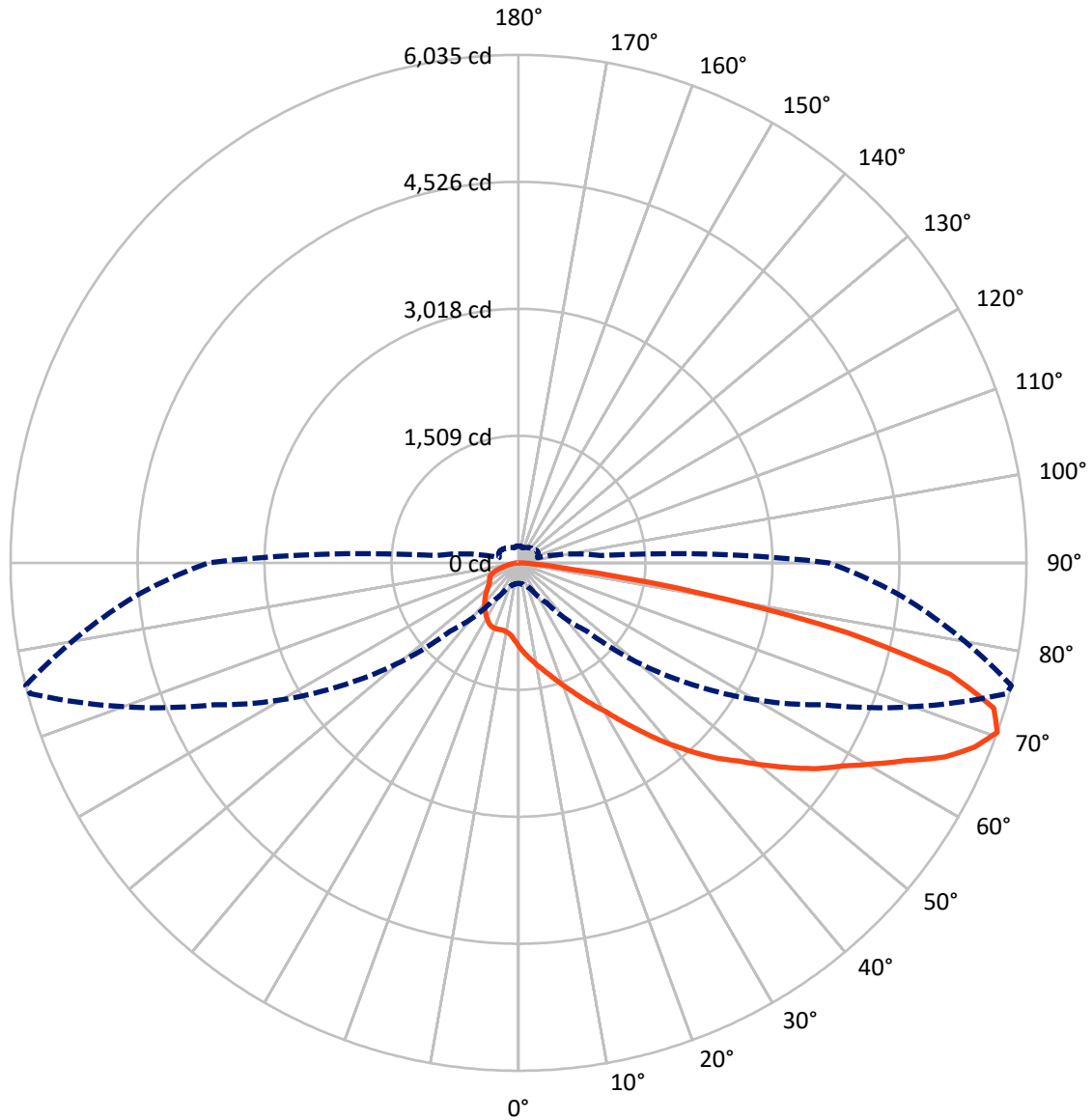
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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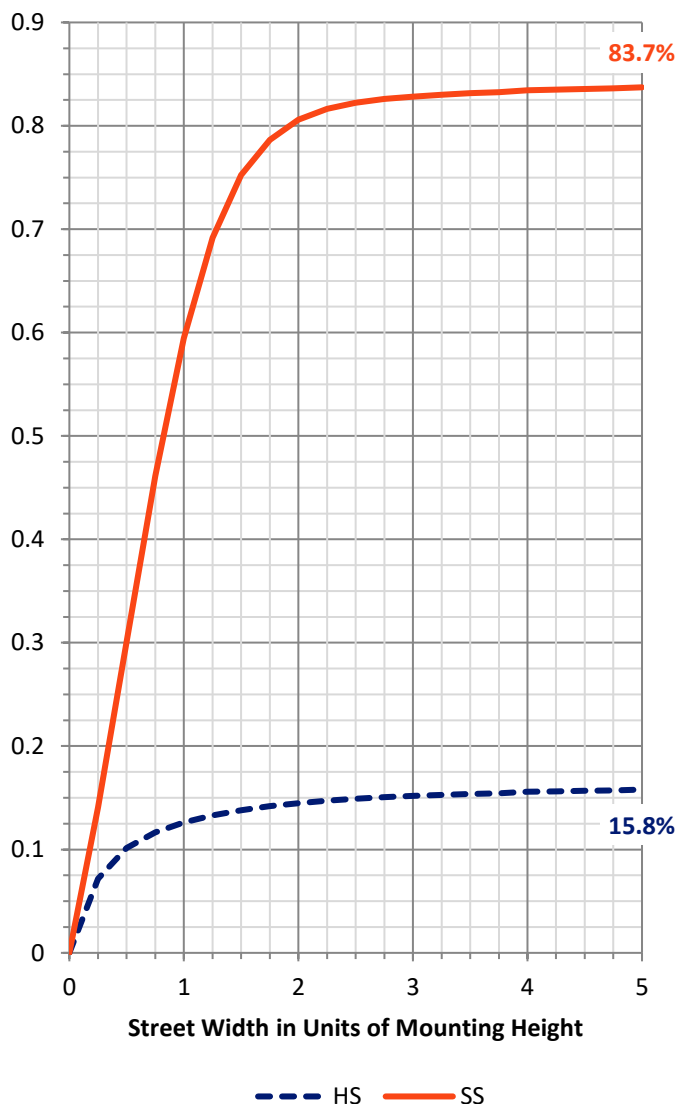
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1217.9	0.0	1217.9
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	6375.2	0.0	6375.2
	% Fixture	84.0	0.0	84.0
Total	Lumens	7593.0	0.0	7593.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	1.3
10°-20°	320.4	4.2
20°-30°	590.4	7.8
30°-40°	989.2	13.0
40°-50°	1405.5	18.5
50°-60°	1622.8	21.4
60°-70°	1491.8	19.6
70°-80°	940.6	12.4
80°-90°	135.3	1.8
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°	7593.0	100.0
0°-180°	7593.0	100.0

Coefficient of Utilization

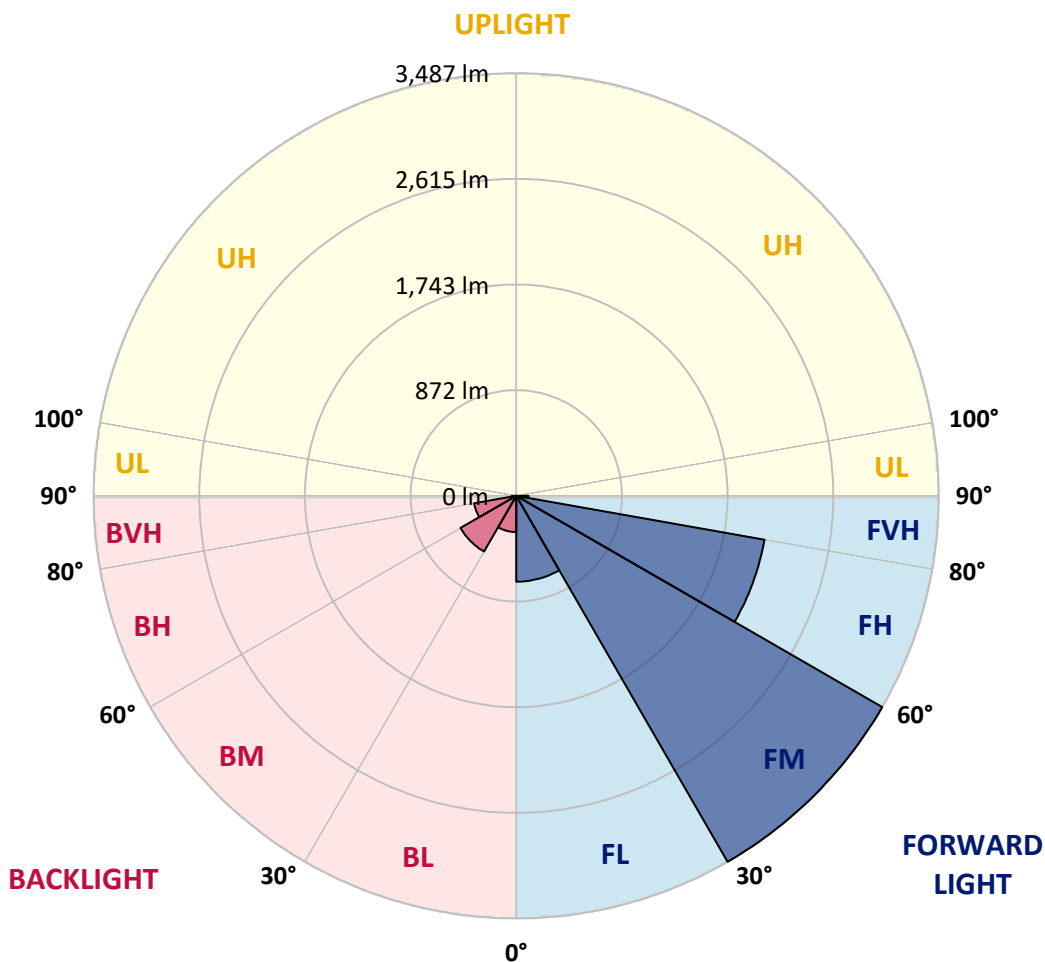


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	708.9	9.3			
FM (30°-60°)	3486.5	45.9			
FH (60°-80°)	2079.4	27.4			G2/5000
FVH (80°-90°)	100.3	1.3			G2/225
BL (0°-30°)	298.9	3.9	B1/500		
BM (30°-60°)	530.9	7.0	B1/1000		
BH (60°-80°)	353.0	4.6	B1/500		G1/500
BVH (80°-90°)	35.0	0.5			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1
2.5°	1199.0	1197.1	1191.7	1182.5	1175.2	1153.3	1124.0	1098.4	1060.1	1056.4	1018.0
5°	1306.8	1299.5	1299.5	1290.3	1281.2	1257.4	1220.9	1175.2	1120.4	1116.7	1043.6
7.5°	1358.0	1359.8	1356.1	1348.8	1350.7	1330.6	1297.7	1252.0	1177.0	1173.4	1078.3
10°	1431.1	1429.2	1421.9	1416.5	1414.6	1396.4	1367.1	1325.1	1246.5	1239.2	1118.5
12.5°	1502.4	1496.9	1498.7	1496.9	1493.2	1474.9	1447.5	1405.5	1308.6	1305.0	1167.9
15°	1542.6	1540.7	1553.5	1557.2	1571.8	1555.4	1531.6	1484.1	1396.4	1381.7	1226.4
17.5°	1568.2	1566.3	1579.1	1608.4	1635.8	1635.8	1628.5	1577.3	1480.4	1469.5	1292.2
20°	1612.0	1619.3	1641.3	1665.0	1705.2	1712.5	1710.7	1688.8	1577.3	1566.3	1365.3
22.5°	1699.7	1696.1	1714.4	1750.9	1787.5	1798.4	1800.3	1800.3	1688.8	1668.7	1440.2
25°	1888.0	1878.9	1864.2	1860.6	1904.4	1902.6	1897.1	1909.9	1805.8	1791.1	1526.1
27.5°	2246.2	2226.1	2169.5	2056.1	2030.6	2039.7	2012.3	2014.1	1939.2	1920.9	1599.2
30°	2586.2	2577.0	2524.0	2387.0	2242.6	2191.4	2143.9	2123.8	2087.2	2056.1	1677.8
32.5°	2893.2	2895.1	2831.1	2681.2	2533.2	2372.3	2290.1	2248.1	2262.7	2235.3	1785.6
35°	3101.6	3085.1	3044.9	2944.4	2783.6	2630.0	2472.9	2379.6	2458.2	2427.2	1893.5
37.5°	3224.0	3211.2	3178.3	3107.1	3026.6	2878.6	2679.4	2536.8	2690.4	2644.7	2030.6
40°	3286.2	3267.9	3235.0	3205.8	3167.4	3087.0	2911.5	2715.9	2902.4	2862.2	2165.8
42.5°	3293.5	3280.7	3262.4	3247.8	3260.6	3249.6	3138.1	2924.3	3125.3	3081.5	2321.2
45°	3288.0	3297.1	3275.2	3249.6	3275.2	3368.4	3368.4	3132.7	3346.5	3313.6	2469.2
47.5°	3291.7	3282.5	3275.2	3267.9	3271.6	3399.5	3527.4	3328.2	3558.5	3520.1	2642.8
50°	3140.0	3152.8	3214.9	3242.3	3258.8	3406.8	3655.4	3540.2	3821.7	3774.2	2836.6
52.5°	2657.5	2664.8	2948.1	3152.8	3218.6	3377.6	3744.9	3776.0	4081.2	4044.7	3044.9
55°	2047.0	2085.4	2354.1	2854.8	3127.2	3328.2	3772.3	3929.5	4346.2	4317.0	3255.1
57.5°	1685.1	1690.6	1846.0	2293.7	2838.4	3282.5	3799.8	4070.3	4583.8	4550.9	3474.4
60°	1398.2	1385.4	1480.4	1769.2	2357.7	3099.8	3805.2	4181.7	4859.8	4848.8	3701.1
62.5°	1027.2	1041.8	1133.2	1378.1	1844.1	2728.7	3777.8	4276.8	5188.8	5174.2	3953.3
65°	630.6	648.8	760.3	985.1	1396.4	2165.8	3598.7	4326.1	5534.2	5567.1	4225.6
67.5°	334.5	347.3	413.1	595.8	957.7	1650.4	3167.4	4264.0	5826.7	5841.3	4487.0
70°	244.9	246.7	268.7	336.3	577.5	1147.8	2522.2	3993.5	6005.8	6035.0	4572.9
72.5°	213.8	215.7	224.8	241.3	314.4	700.0	1807.6	3521.9	5930.8	5905.3	4428.5
75°	193.7	193.7	201.0	206.5	230.3	387.5	1107.6	2882.3	5358.8	5302.1	3776.0
77.5°	166.3	166.3	173.6	180.9	199.2	250.4	579.4	2136.6	4097.7	4000.8	2582.5
80°	133.4	133.4	142.6	151.7	175.5	188.3	283.3	1429.2	2343.1	2200.5	1175.2
82.5°	91.4	98.7	115.1	126.1	146.2	133.4	166.3	617.8	738.4	639.7	265.0
85°	54.8	58.5	82.2	95.0	109.7	71.3	102.4	237.6	221.1	193.7	60.3
87.5°	5.5	9.1	32.9	38.4	38.4	20.1	43.9	56.7	64.0	65.8	14.6
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°	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1
2.5°	996.1	974.2	932.1	893.7	855.4	829.8	804.2	795.0	782.2	773.1	780.4
5°	1005.2	959.5	879.1	811.5	765.8	731.1	714.6	705.5	698.2	696.3	694.5
7.5°	1016.2	948.6	840.7	765.8	721.9	705.5	701.8	701.8	701.8	703.7	705.5
10°	1040.0	952.2	820.6	740.2	716.5	712.8	714.6	721.9	721.9	723.8	723.8
12.5°	1067.4	961.4	806.0	736.6	721.9	723.8	725.6	729.2	729.2	734.7	732.9
15°	1107.6	979.6	804.2	740.2	727.4	723.8	723.8	721.9	721.9	721.9	725.6
17.5°	1158.8	1005.2	806.0	740.2	721.9	714.6	709.1	703.7	696.3	700.0	696.3
20°	1209.9	1036.3	806.0	731.1	707.3	689.0	672.6	663.4	654.3	652.5	654.3
22.5°	1273.9	1072.9	796.9	711.0	676.2	650.7	626.9	614.1	599.5	594.0	590.3
25°	1328.7	1102.1	778.6	681.7	641.5	605.0	573.9	552.0	533.7	530.0	530.0
27.5°	1385.4	1127.7	751.2	645.2	592.2	552.0	517.2	489.8	471.5	469.7	467.9
30°	1438.4	1149.6	714.6	605.0	548.3	500.8	460.6	436.8	420.4	411.2	405.7
32.5°	1507.8	1178.9	679.9	564.8	497.1	449.6	413.1	393.0	371.0	356.4	350.9
35°	1595.6	1213.6	641.5	520.9	451.4	403.9	382.0	352.7	325.3	308.9	303.4
37.5°	1694.3	1262.9	601.3	475.2	405.7	371.0	358.2	312.5	283.3	277.8	276.0
40°	1816.7	1310.5	555.6	427.7	361.9	352.7	330.8	283.3	268.7	266.8	265.0
42.5°	1939.2	1361.6	511.8	380.2	327.2	330.8	299.7	276.0	263.2	259.5	257.7
45°	2081.7	1412.8	467.9	338.1	299.7	299.7	283.3	268.7	257.7	254.0	254.0
47.5°	2231.6	1464.0	420.4	301.6	279.6	268.7	270.5	259.5	252.2	248.6	246.7
50°	2419.9	1513.3	376.5	276.0	266.8	252.2	257.7	250.4	246.7	243.1	241.3
52.5°	2597.1	1535.3	336.3	261.4	259.5	244.9	246.7	243.1	241.3	235.8	233.9
55°	2770.8	1529.8	305.2	254.0	250.4	243.1	239.4	237.6	235.8	230.3	228.5
57.5°	2964.5	1522.5	285.1	252.2	244.9	237.6	237.6	232.1	224.8	224.8	224.8
60°	3165.6	1498.7	276.0	252.2	243.1	237.6	233.9	228.5	221.1	223.0	221.1
62.5°	3392.2	1453.0	270.5	257.7	244.9	235.8	232.1	224.8	215.7	217.5	215.7
65°	3591.4	1359.8	266.8	263.2	248.6	237.6	228.5	219.3	208.4	210.2	208.4
67.5°	3726.6	1202.6	255.9	266.8	254.0	235.8	224.8	212.0	197.4	204.7	202.9
70°	3688.3	977.8	235.8	259.5	259.5	237.6	219.3	202.9	186.4	201.0	195.6
72.5°	3390.4	734.7	197.4	233.9	255.9	237.6	208.4	188.3	173.6	182.8	171.8
75°	2783.6	499.0	157.2	186.4	239.4	239.4	199.2	173.6	155.4	149.9	146.2
77.5°	1736.3	310.7	122.5	137.1	201.0	237.6	190.1	155.4	129.8	126.1	122.5
80°	687.2	166.3	96.9	98.7	148.0	217.5	177.3	131.6	104.2	100.5	93.2
82.5°	157.2	84.1	67.6	65.8	91.4	177.3	160.8	104.2	80.4	80.4	67.6
85°	47.5	43.9	43.9	42.0	45.7	91.4	124.3	71.3	54.8	38.4	32.9
87.5°	12.8	18.3	16.4	14.6	14.6	12.8	40.2	18.3	11.0	5.5	3.7
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)