

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: P595304

Luminaire Tested: **IST-PA1E-740-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1E-740-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7365 lumens
Efficiency: N/A
Efficacy: 90.4 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

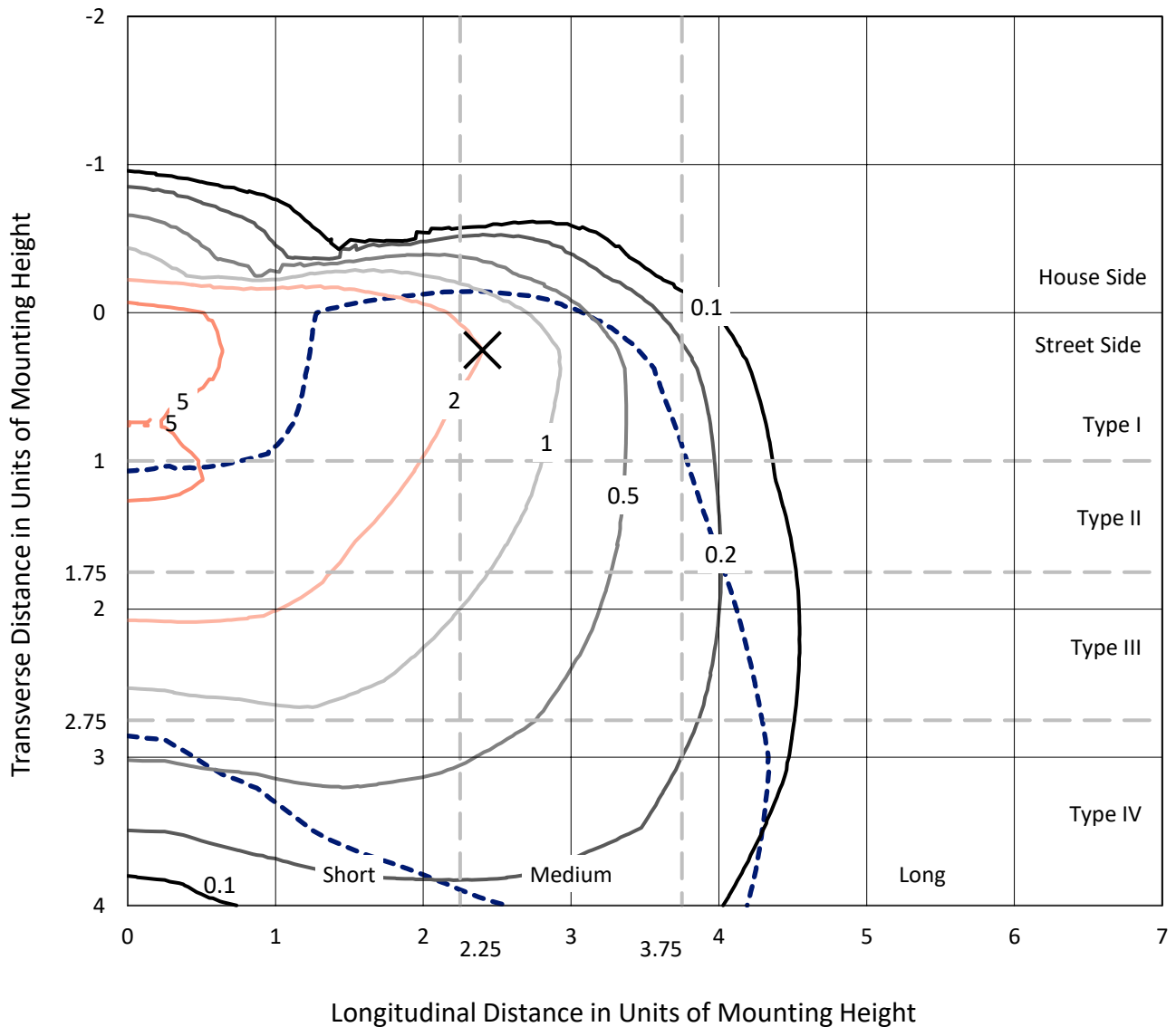
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P595304
 CATALOG NUMBER: IST-PA1E-740-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

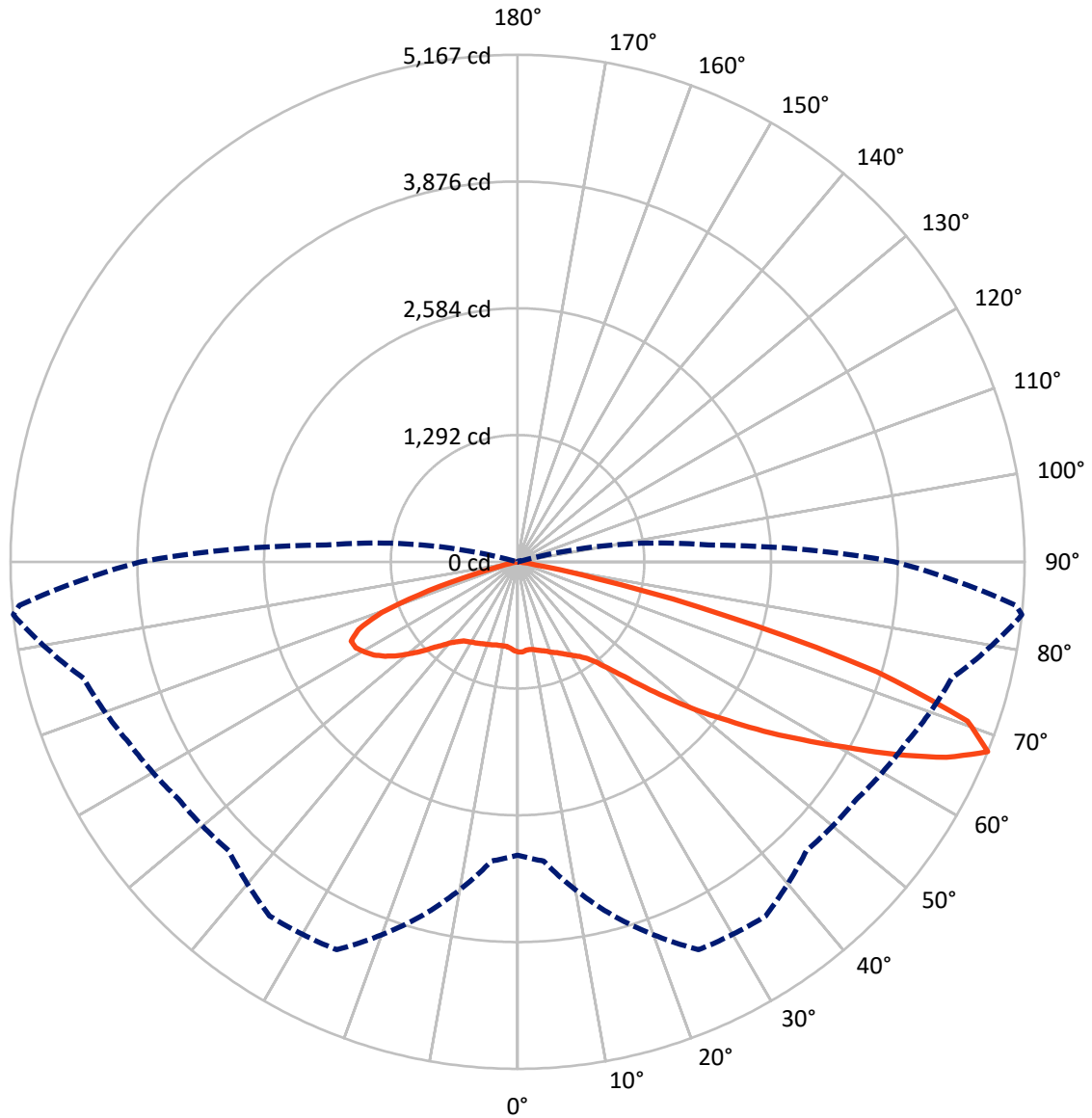
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Medium - N/A

REPORT NUMBER: P595304
CATALOG NUMBER: IST-PA1E-740-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: IST-PA1E-740-U-T4W-HSS

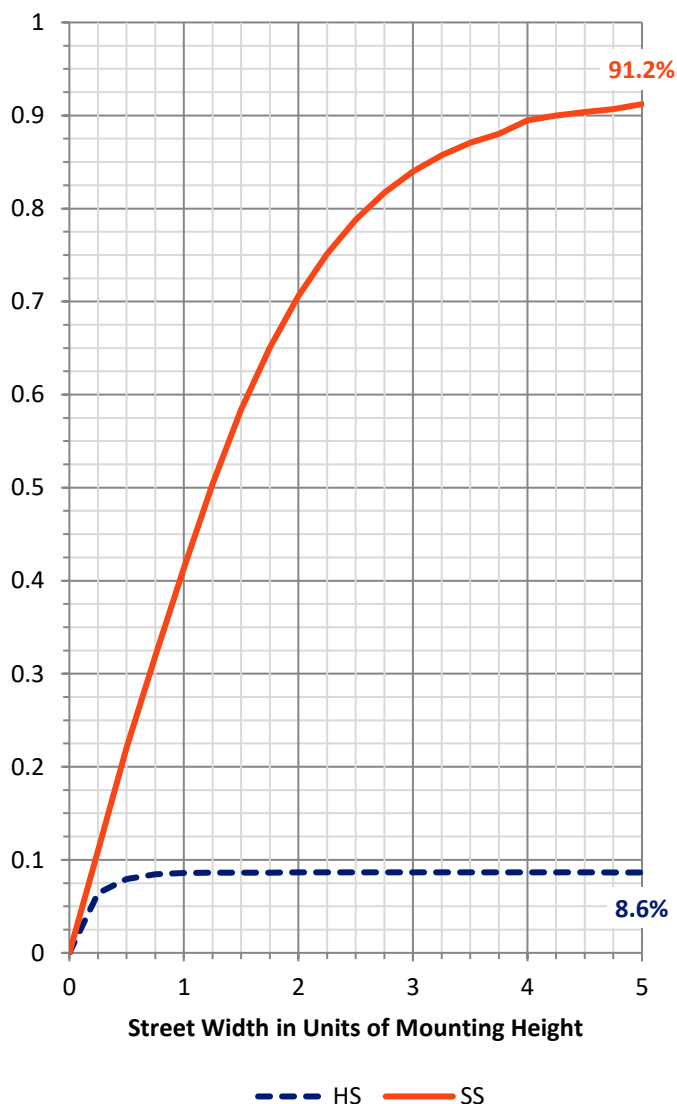
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	641.2	0.0	641.2
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	6723.8	0.0	6723.8
	% Fixture	91.3	0.0	91.3
Total	Lumens	7365.0	0.0	7365.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.3	1.1
10°-20°	215.2	2.9
20°-30°	344.7	4.7
30°-40°	496.0	6.7
40°-50°	851.3	11.6
50°-60°	1487.4	20.2
60°-70°	2130.0	28.9
70°-80°	1601.0	21.7
80°-90°	157.1	2.1
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°	7365.0	100.0
0°-180°	7365.0	100.0

Coefficient of Utilization



REPORT NUMBER: P595304

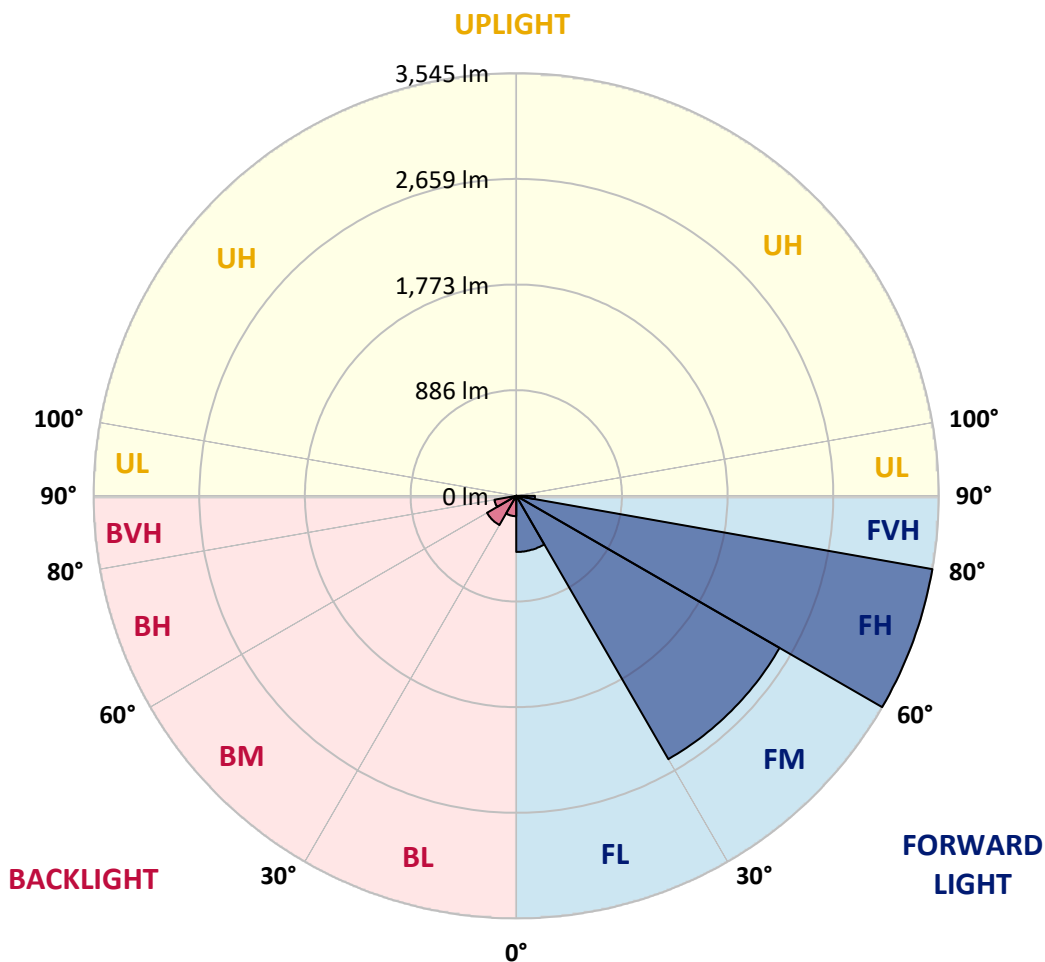
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	470.9	6.4			
FM (30°-60°)	2551.2	34.6			
FH (60°-80°)	3545.1	48.1			G2/5000
FVH (80°-90°)	156.6	2.1			G2/225
BL (0°-30°)	171.2	2.3	B1/500		
BM (30°-60°)	283.6	3.9	B1/1000		
BH (60°-80°)	185.9	2.5	B1/500		G1/500
BVH (80°-90°)	0.5	0.0			G0/10
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





REPORT NUMBER: P595304
 CATALOG NUMBER: IST-PA1E-740-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6
2.5°	969.8	974.8	977.3	964.8	964.8	954.9	940.0	935.0	927.5	920.1	917.6
5°	1019.5	1027.0	1024.5	1009.6	1002.1	982.2	962.4	942.5	922.6	905.2	905.2
7.5°	1076.7	1079.2	1071.8	1046.9	1032.0	1004.6	974.8	952.4	927.5	902.7	897.7
10°	1126.5	1124.0	1114.0	1089.2	1061.8	1027.0	994.7	969.8	940.0	910.1	907.6
12.5°	1161.3	1163.8	1151.3	1116.5	1089.2	1049.4	1017.1	992.2	957.4	925.1	917.6
15°	1191.1	1198.6	1183.7	1148.9	1109.1	1074.3	1049.4	1017.1	977.3	940.0	935.0
17.5°	1218.5	1221.0	1208.5	1168.7	1131.4	1101.6	1074.3	1044.4	1004.6	957.4	952.4
20°	1233.4	1240.9	1233.4	1183.7	1148.9	1126.5	1104.1	1074.3	1029.5	984.7	979.8
22.5°	1243.3	1250.8	1248.3	1193.6	1163.8	1146.4	1126.5	1099.1	1056.8	1004.6	999.7
25°	1248.3	1253.3	1258.3	1203.6	1178.7	1171.2	1153.8	1129.0	1089.2	1034.5	1029.5
27.5°	1255.8	1260.8	1265.7	1216.0	1206.0	1198.6	1193.6	1173.7	1126.5	1069.3	1061.8
30°	1268.2	1275.7	1280.6	1238.4	1238.4	1245.8	1245.8	1218.5	1166.3	1106.6	1101.6
32.5°	1283.1	1285.6	1295.6	1260.8	1273.2	1290.6	1285.6	1258.3	1203.6	1148.9	1141.4
35°	1322.9	1322.9	1340.3	1295.6	1310.5	1325.4	1330.4	1310.5	1260.8	1206.0	1203.6
37.5°	1419.9	1419.9	1434.8	1362.7	1360.2	1375.1	1392.5	1392.5	1342.8	1293.1	1288.1
40°	1638.7	1638.7	1638.7	1472.1	1444.8	1462.2	1489.5	1504.5	1462.2	1427.4	1427.4
42.5°	2004.3	2006.8	1969.5	1673.5	1556.7	1586.5	1616.4	1648.7	1626.3	1601.4	1596.5
45°	2382.3	2369.8	2364.8	1969.5	1755.6	1740.7	1778.0	1832.7	1840.2	1825.2	1835.2
47.5°	2640.9	2653.3	2660.8	2337.5	2034.1	1932.2	1967.0	2044.1	2088.8	2086.3	2101.3
50°	2892.0	2899.5	2906.9	2742.8	2402.1	2173.4	2195.8	2300.2	2362.4	2382.3	2392.2
52.5°	3110.9	3091.0	3123.3	3100.9	2792.6	2449.4	2449.4	2568.8	2680.7	2688.1	2685.6
55°	3175.5	3187.9	3284.9	3352.1	3192.9	2787.6	2737.9	2864.7	2984.0	3046.2	3046.2
57.5°	3319.7	3332.2	3449.0	3600.7	3483.9	3120.8	3046.2	3170.5	3299.8	3419.2	3436.6
60°	3508.7	3511.2	3635.5	3866.8	3705.2	3421.7	3359.5	3501.3	3630.6	3834.5	3891.7
62.5°	3610.7	3620.6	3792.2	4095.6	3983.7	3685.3	3670.4	3799.7	3966.3	4324.4	4376.6
65°	3454.0	3518.7	3891.7	4232.4	4210.0	3931.5	3983.7	4088.1	4279.6	4804.3	4854.0
67.5°	2989.0	3061.1	3727.6	4361.7	4406.4	4162.7	4217.4	4369.1	4580.5	5167.4	5097.7
70°	2752.8	2812.5	3329.7	4433.8	4570.5	4421.3	4446.2	4588.0	4650.1	4864.0	4789.4
72.5°	2086.3	2148.5	2817.4	4187.6	4712.3	4692.4	4630.2	4513.4	4145.3	3827.0	3645.5
75°	922.6	994.7	1875.0	3272.5	4361.7	4846.6	4518.3	3864.3	2976.6	2173.4	2014.2
77.5°	407.8	450.1	726.1	1817.8	3277.5	4195.1	3573.4	2576.2	1494.5	808.2	751.0
80°	131.8	136.8	228.8	636.6	1676.0	2777.6	2188.3	1238.4	460.0	189.0	176.6
82.5°	52.2	57.2	109.4	268.6	693.8	1104.1	1074.3	447.6	134.3	49.7	49.7
85°	14.9	17.4	54.7	141.7	246.2	310.8	380.5	149.2	72.1	14.9	14.9
87.5°	5.0	5.0	19.9	44.8	47.2	32.3	72.1	57.2	44.8	5.0	5.0
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°	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6
2.5°	912.6	907.6	895.2	885.3	880.3	872.8	862.9	857.9	857.9	855.4	848.0
5°	895.2	887.7	865.4	850.4	838.0	810.7	790.8	765.9	741.0	733.6	741.0
7.5°	887.7	872.8	843.0	813.1	760.9	688.8	641.6	589.3	571.9	549.6	552.0
10°	890.2	872.8	830.6	763.4	661.5	554.5	479.9	410.3	375.5	358.1	360.6
12.5°	897.7	877.8	818.1	696.3	549.6	420.3	305.9	251.2	241.2	241.2	241.2
15°	912.6	882.8	798.2	616.7	430.2	278.5	216.3	211.4	218.8	226.3	228.8
17.5°	927.5	897.7	768.4	534.6	313.3	208.9	201.4	201.4	208.9	216.3	218.8
20°	944.9	912.6	726.1	447.6	223.8	196.4	194.0	191.5	196.4	203.9	206.4
22.5°	972.3	927.5	676.4	345.7	194.0	189.0	184.0	181.5	184.0	191.5	194.0
25°	997.2	947.4	624.2	256.1	181.5	176.6	174.1	171.6	171.6	176.6	179.0
27.5°	1027.0	969.8	567.0	191.5	166.6	164.1	161.6	159.1	156.7	161.6	164.1
30°	1064.3	989.7	504.8	161.6	151.7	149.2	146.7	144.2	141.7	144.2	146.7
32.5°	1111.6	1017.1	432.7	146.7	139.3	131.8	129.3	129.3	126.8	126.8	129.3
35°	1173.7	1046.9	355.6	136.8	126.8	119.4	111.9	109.4	109.4	109.4	111.9
37.5°	1265.7	1101.6	281.0	126.8	116.9	104.4	97.0	89.5	89.5	89.5	89.5
40°	1392.5	1161.3	218.8	119.4	109.4	92.0	82.1	72.1	67.1	64.7	67.1
42.5°	1589.0	1250.8	169.1	109.4	104.4	82.1	67.1	54.7	44.8	42.3	44.8
45°	1805.3	1347.8	134.3	102.0	94.5	69.6	52.2	37.3	27.4	24.9	27.4
47.5°	2078.9	1469.6	114.4	92.0	82.1	57.2	37.3	19.9	12.4	14.9	14.9
50°	2342.5	1589.0	104.4	84.5	72.1	47.2	22.4	9.9	5.0	7.5	7.5
52.5°	2633.4	1715.8	97.0	74.6	62.2	34.8	12.4	2.5	0.0	2.5	2.5
55°	2926.8	1830.2	89.5	67.1	49.7	24.9	5.0	0.0	0.0	0.0	2.5
57.5°	3245.1	1927.2	82.1	57.2	37.3	14.9	2.5	0.0	0.0	0.0	0.0
60°	3511.2	2001.8	74.6	49.7	24.9	7.5	0.0	0.0	0.0	0.0	0.0
62.5°	3754.9	2068.9	57.2	37.3	14.9	5.0	0.0	0.0	0.0	0.0	0.0
65°	3916.5	2083.8	39.8	24.9	9.9	2.5	0.0	0.0	0.0	0.0	0.0
67.5°	3844.4	1954.5	24.9	17.4	5.0	2.5	0.0	0.0	0.0	0.0	0.0
70°	3379.4	1641.2	17.4	9.9	2.5	2.5	0.0	0.0	0.0	0.0	0.0
72.5°	2364.8	1059.3	14.9	7.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
75°	1248.3	383.0	9.9	5.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0
77.5°	442.6	84.5	5.0	2.5	0.0	2.5	0.0	0.0	0.0	0.0	0.0
80°	97.0	17.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.4	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)