

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: P197899

Luminaire Tested: **TT-C2-LED-E1-WQ-SG-MS/DIM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115558)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C2-LED-E1-WQ-SG-MS/DIM-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3851.3 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 34
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: 25 FT

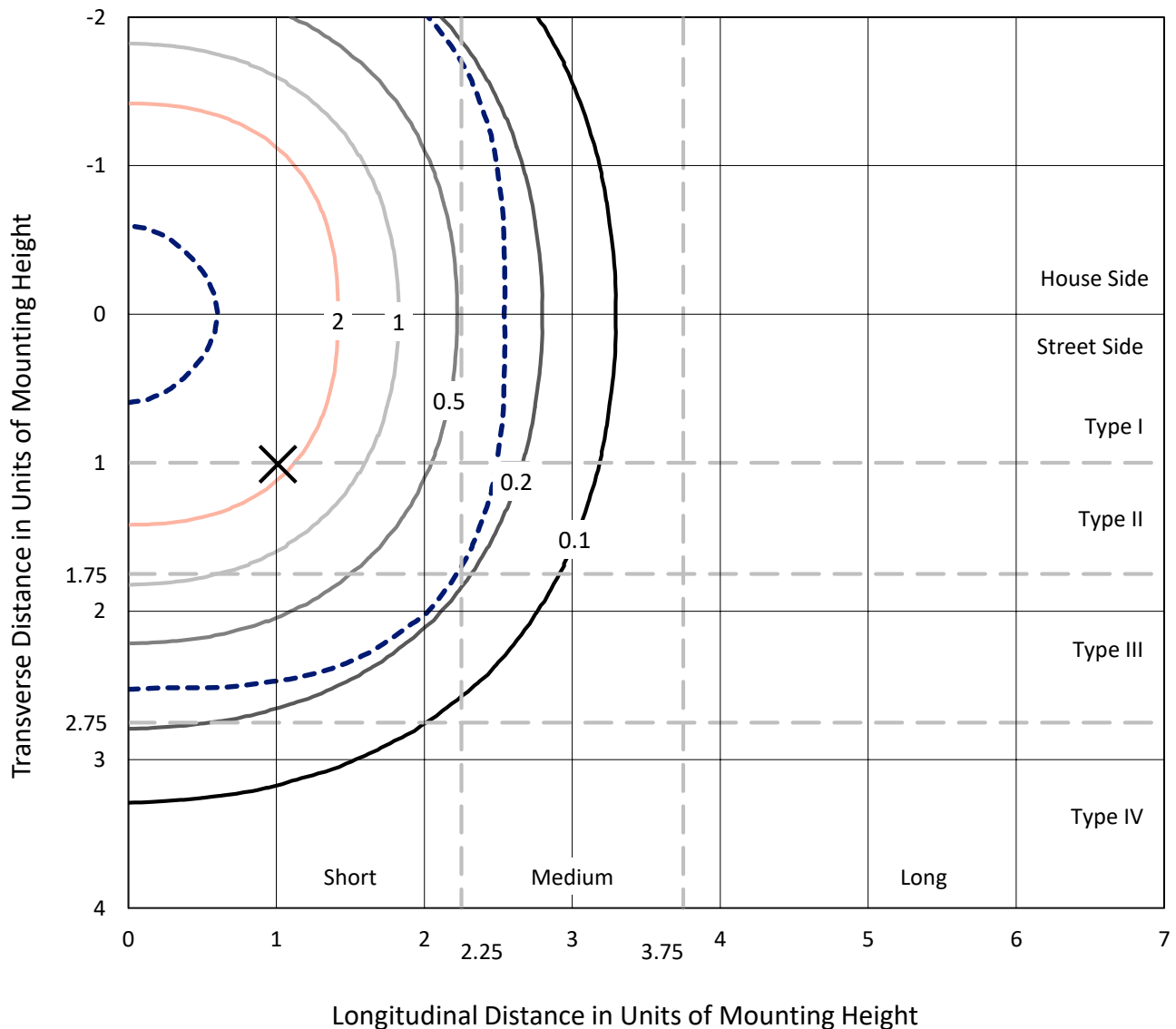


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

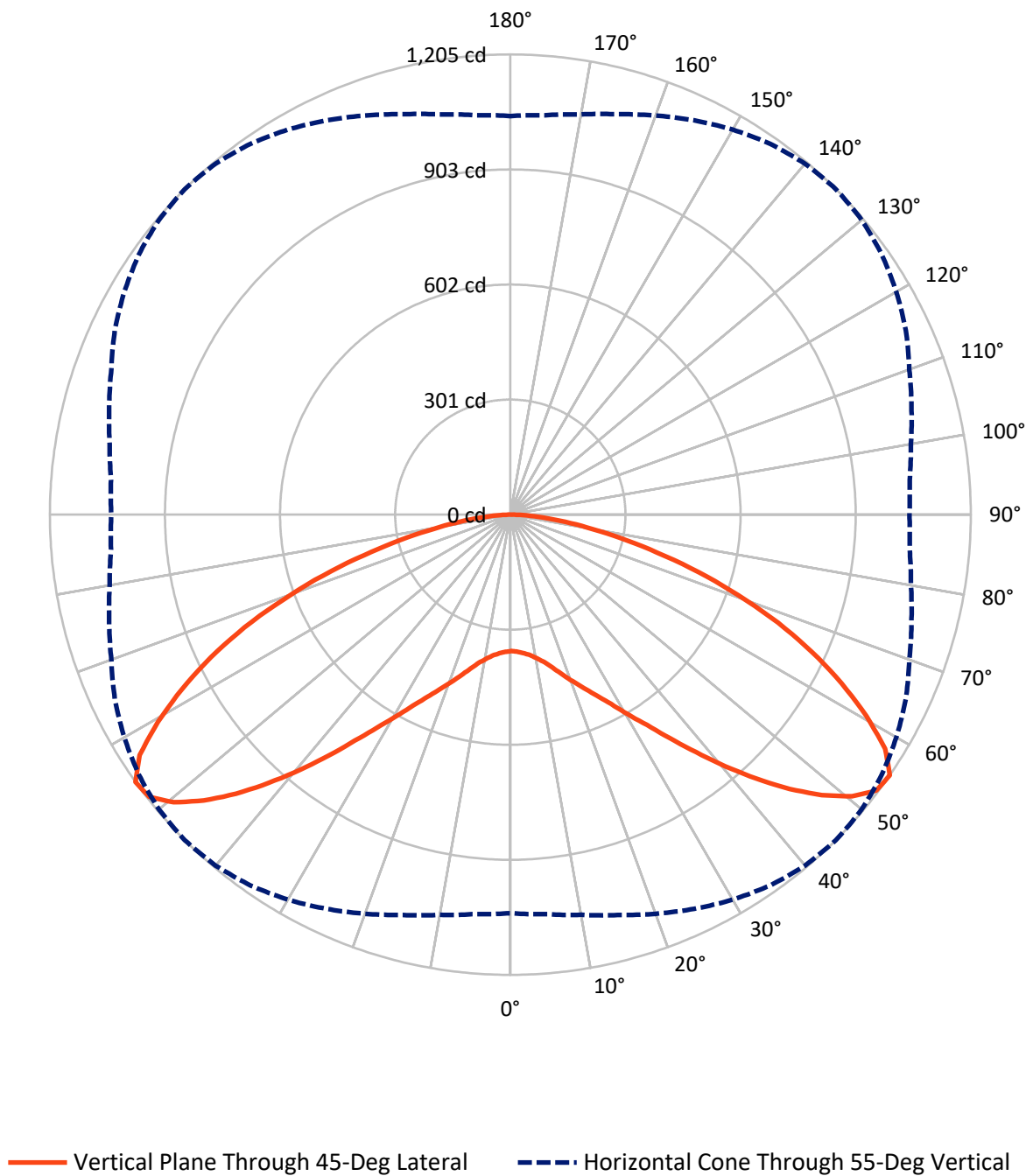


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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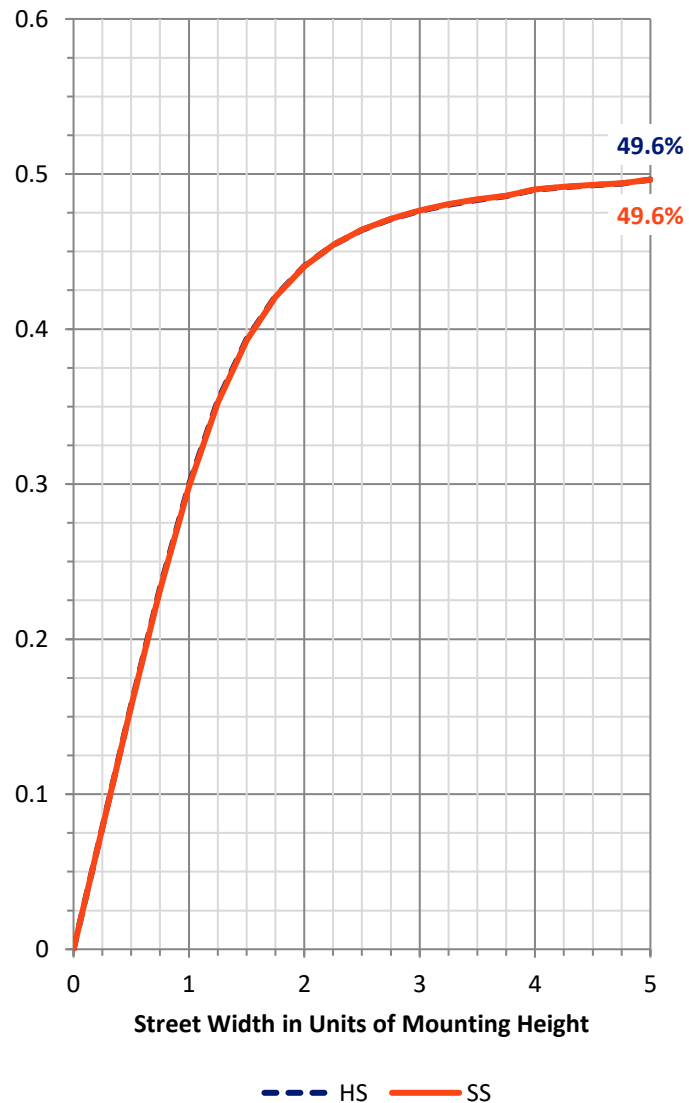
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1925.7	0.0	1925.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1925.7	0.0	1925.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	3851.3	0.0	3851.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	0.9
10°-20°	119.5	3.1
20°-30°	243.5	6.3
30°-40°	444.6	11.5
40°-50°	754.9	19.6
50°-60°	983.1	25.5
60°-70°	795.1	20.6
70°-80°	390.7	10.1
80°-90°	84.6	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°	3851.3	100.0
0°-180°	3851.3	100.0

Coefficient of Utilization



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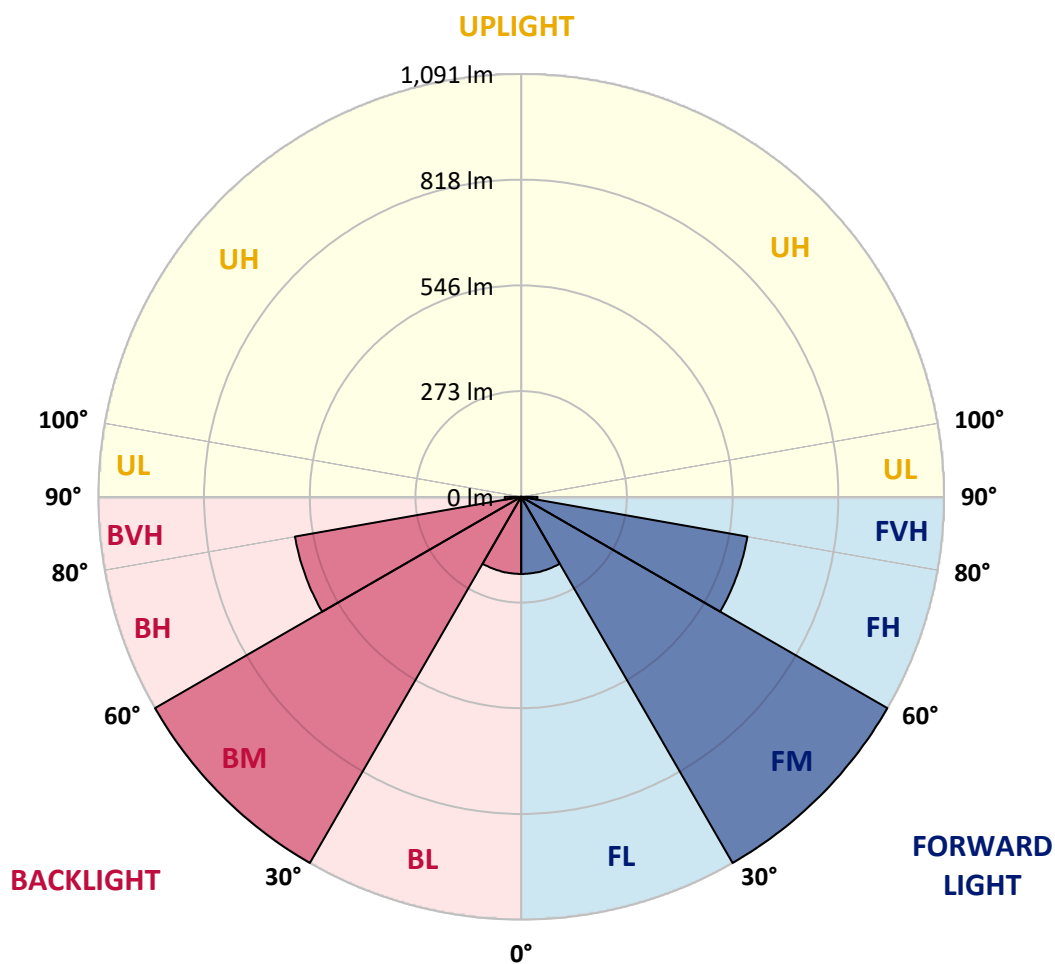
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	199.1	5.2			
FM	(30°-60°)	1091.3	28.3			
FH	(60°-80°)	592.9	15.4			G0/660
FVH	(80°-90°)	42.3	1.1			G1/100
BL	(0°-30°)	199.1	5.2	B1/500		
BM	(30°-60°)	1091.3	28.3	B2/2500		
BH	(60°-80°)	592.9	15.4	B2/1000		G0/660
BVH	(80°-90°)	42.3	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	356.9	356.9	356.9	356.9	356.9	356.9	356.9	356.9	356.9	356.9	356.9
2.5°	358.4	358.4	358.4	358.4	358.4	358.4	359.2	359.2	359.2	359.2	359.2
5°	363.2	363.2	363.2	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0
7.5°	370.2	369.4	370.2	370.2	370.2	371.1	371.1	370.2	371.1	371.1	371.1
10°	380.5	379.7	380.5	380.5	380.5	381.3	381.3	381.3	381.3	381.3	381.3
12.5°	395.5	394.7	395.5	396.3	395.5	396.3	396.3	396.3	396.3	396.3	396.3
15°	414.4	413.6	414.4	415.1	414.4	415.9	415.9	415.1	415.1	415.1	415.9
17.5°	437.2	435.7	436.4	437.2	437.2	438.8	438.8	438.0	438.8	439.5	438.8
20°	460.8	459.3	460.1	462.4	462.4	463.2	464.8	464.0	464.8	465.6	464.8
22.5°	486.8	486.0	486.8	489.2	489.2	490.0	492.3	492.3	492.3	493.1	492.3
25°	515.2	514.4	515.2	517.5	517.5	519.1	522.3	522.3	523.1	523.9	523.1
27.5°	548.3	547.5	549.0	551.5	552.3	554.6	558.6	559.4	560.1	560.9	559.4
30°	586.9	585.3	587.6	591.6	593.2	596.3	601.1	602.6	603.4	605.8	604.2
32.5°	631.0	629.5	632.6	637.3	639.7	644.4	650.7	652.3	654.6	656.2	653.9
35°	683.0	682.2	685.4	692.5	696.4	701.9	710.6	712.9	714.5	717.7	714.5
37.5°	740.5	739.7	745.2	753.1	760.2	768.9	778.3	782.2	784.6	788.6	784.6
40°	804.3	803.5	810.6	820.1	828.7	839.8	851.6	857.1	861.8	865.8	861.0
42.5°	869.7	869.7	878.4	888.6	901.2	914.6	928.0	934.3	942.2	944.5	939.0
45°	932.7	933.5	942.2	954.7	972.9	990.2	1005.2	1013.1	1021.7	1024.1	1017.0
47.5°	992.6	993.4	1001.2	1017.8	1038.3	1058.0	1076.1	1087.1	1095.7	1096.6	1091.1
50°	1041.4	1044.6	1054.8	1069.8	1091.1	1111.5	1133.6	1147.8	1156.4	1158.8	1153.3
52.5°	1060.4	1065.9	1077.7	1096.6	1121.0	1142.2	1166.7	1184.8	1195.0	1199.0	1194.3
55°	1043.0	1049.3	1063.5	1084.8	1111.5	1138.3	1163.5	1184.8	1199.0	1204.5	1199.8
57.5°	1004.4	1005.2	1019.4	1040.6	1065.1	1092.6	1117.0	1136.8	1150.1	1155.7	1154.9
60°	937.4	937.4	950.9	971.3	990.2	1018.6	1039.1	1054.0	1063.5	1069.8	1068.2
62.5°	847.7	847.7	859.4	880.7	899.6	924.0	943.8	959.5	965.8	972.9	974.5
65°	747.6	747.6	758.6	779.9	797.2	819.3	838.1	853.1	859.4	868.1	866.5
67.5°	641.2	640.5	650.7	668.8	685.4	705.8	724.0	738.2	745.2	755.5	748.4
70°	531.7	531.7	540.4	554.6	566.4	586.9	604.2	618.4	623.9	632.6	628.7
72.5°	427.8	427.0	434.1	445.1	454.5	472.7	482.9	498.7	503.4	515.2	508.9
75°	334.0	332.5	337.9	345.8	352.1	364.0	371.9	384.4	388.4	396.3	393.1
77.5°	251.3	250.5	252.8	258.4	263.1	272.6	275.7	282.0	285.2	293.1	286.8
80°	180.4	178.1	180.4	183.6	185.2	192.3	193.0	195.4	196.9	202.5	196.1
82.5°	121.3	118.2	119.7	122.1	122.1	126.0	126.8	126.0	129.2	130.8	127.6
85°	69.3	67.0	67.8	69.3	68.6	70.9	70.9	70.1	72.4	72.4	70.9
87.5°	22.9	21.3	22.1	22.9	22.9	23.6	24.4	23.6	25.2	25.2	23.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	356.9	356.9	356.9	356.9	356.9	356.9	356.9	356.9
2.5°	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2
5°	364.0	364.0	364.0	364.0	364.0	363.2	363.2	363.2
7.5°	371.1	371.1	371.1	371.1	371.1	370.2	370.2	370.2
10°	382.1	381.3	381.3	381.3	381.3	380.5	381.3	380.5
12.5°	396.3	397.0	397.0	396.3	397.0	395.5	395.5	395.5
15°	415.9	415.1	415.1	415.1	415.1	414.4	414.4	414.4
17.5°	438.0	438.0	437.2	437.2	436.4	435.7	435.7	435.7
20°	464.0	463.2	462.4	461.6	460.8	459.3	458.5	458.5
22.5°	490.8	490.0	489.2	488.5	487.6	486.0	484.5	484.5
25°	520.7	519.1	518.3	516.8	515.2	513.6	512.9	512.1
27.5°	556.9	555.4	553.0	550.7	547.5	546.7	545.2	545.2
30°	600.3	598.0	594.7	590.9	587.6	584.5	583.0	582.2
32.5°	650.7	647.6	642.0	637.3	631.8	628.7	626.3	624.7
35°	709.8	705.0	698.8	691.7	684.6	679.1	675.1	675.1
37.5°	779.1	772.0	762.6	753.9	743.6	737.3	732.6	729.5
40°	854.7	844.5	832.7	821.6	809.9	801.2	794.1	794.9
42.5°	929.6	920.9	906.7	893.3	878.4	866.5	857.9	857.1
45°	1008.3	997.3	980.0	962.6	945.3	931.1	920.9	919.3
47.5°	1081.6	1069.8	1049.3	1028.1	1009.1	993.4	982.4	980.8
50°	1141.5	1127.3	1106.1	1083.2	1062.7	1045.4	1033.5	1030.4
52.5°	1180.1	1164.3	1141.5	1113.9	1091.9	1072.1	1058.0	1054.0
55°	1186.4	1165.9	1141.5	1110.7	1086.3	1064.2	1048.5	1043.8
57.5°	1143.0	1121.0	1099.0	1072.1	1047.7	1024.1	1011.5	1005.2
60°	1058.8	1041.4	1023.3	998.9	979.2	957.2	946.9	943.8
62.5°	961.8	946.9	930.3	905.2	888.6	868.9	859.4	855.6
65°	857.9	840.6	824.8	804.3	786.2	769.7	756.3	754.7
67.5°	742.8	724.8	711.3	693.3	675.1	659.4	650.7	646.0
70°	621.6	606.6	593.2	573.5	561.7	546.7	540.4	535.7
72.5°	501.0	492.3	475.8	463.2	449.9	438.0	434.1	429.3
75°	387.6	377.3	364.8	356.9	346.6	340.4	337.1	334.0
77.5°	284.4	275.7	268.6	265.5	260.7	254.5	252.1	249.7
80°	196.9	193.0	188.3	187.5	184.4	179.6	178.8	178.1
82.5°	127.6	125.3	123.7	123.7	122.1	118.9	118.2	118.2
85°	70.9	70.1	70.9	70.1	68.6	67.0	67.0	67.0
87.5°	23.6	23.6	24.4	25.2	22.9	22.9	22.1	22.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)